Electronic Theatre Controls

North America Product Catalog

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from the CEO

We have so much new to show you this year — more ETC innovations to light up your world and work. In these pages, meet Eos Ti, the newest desk in our award-winning lighting control lines. We designed Eos Ti to contain and exceed the powerful functionality of Eos — mastering your hybrid lighting rigs filled with conventional fixtures (like ETC's Source Fours), moving lights, multimedia devices, and LEDs (like our Selador x7 Color System luminaires and Source Four LEDs).

Our expanded Source Four LED and Desire LED lines bring unprecedented rich color and whites to your stage, studio, exterior and interior productions. Our Sensor3 Power Control system (it's not enough to call it "dimming" anymore) offers our new ThruPower modules, accommodating the variety of load types in your hybrid lighting systems.

And per your demand, we've introduced the powerful little Source Four Mini. You've wanted an ultra-compact spotlight to do specialty lighting for as long as the Source Four's unique light has existed. Now you have one.

I hope that as you look at our products here you will see beyond them too, to the reasons they are the best in the industry: ETC has the best people. I'm very proud of that. ETC is entering its 39th year of existence — from the early college-student band of inventors to the current ETC international community of over 700 people (not counting our representatives, dealers and certified technicians, who are part of the ETC family as well). The history of ETC marks milestones in product introductions, awards, installations, acquisitions, and expansion. But the real story has always been about the brainpower and heart of the individuals who work here. At the same time, we recognize the people behind the use of our products worldwide — *you*. We want to take the opportunity to tell you that your passion for lighting and rigging drives and inspires us.

Thank you for choosing ETC.

fred foster

a better way

ETC was begun in 1975 with the passionate belief that there was a better way to make a lighting control console. We developed one of the first microprocessor-based systems, with the then blindingly fast 2MHz 8080 CPU. Now our award-winning lighting control desks are thousands of times more powerful than those versions. And we keep believing lighting control can be even better.

We also proved that the HPL lamp in a Source Four® made for a better spotlight — unmatched light output and energy savings. Well over three million Source Four-family fixtures now light up venues and productions worldwide.

And we offer you a better way to seize the efficiencies of LED lighting: eco-friendly ETC LED fixtures with the power and punch that theater and broadcast productions require, plus a stunningly beautiful seven-color range. The most vivid, saturated color available from LED technology: the award-winning Source Four LED™ and Selador series, including the Desire® LED line.

With our Unison® family, now comprising Paradigm®, Mosaic®, and SmartLink® products and more, we are giving you far better — and greener — solutions for handling sophisticated architectural lighting, as well as for building-systems and dynamic show control.

We also believe there is a better way to serve customers. Our Project Management group serves as your intermediaries and customer advocates. They support your installation's unique needs, create submittals, assist specifiers, process order changes, facilitate shipping, and coordinate technical-service involvement. They listen to you and respond with solutions for your lighting success.

We are always here with customer support. Call us when you need us, 24 hours a day, seven days a week at 1-800-688-4116. Our regional offices and over 200 authorized service providers around the world will do what it takes to solve your problem. *The show must go on.* That's the ETC ethic.

The great playwrights of history said '*Life is theater.*' At ETC, we light life. And we're always looking for better ways to do that for you.

The speed of light: Complete Control™ by ETC

ETC's lighting control desks and systems master the most ambitious lighting rigs — from legions of conventional fixtures, to moving lights, media servers, LEDs, and more. We have a console for every production or venue.

For lighting professionals devoted to the operational 'DNA' of ETC's award-winning Eos® family, the choice now includes not only the Gio®, Ion®, and Element™ desks but the new Eos Titanium. The flagship of the console line, Eos Ti™ is aimed at venues with big work to do — Broadway and West End shows, opera, TV, and beyond.

The Gio fills the mid-range position in the family, between Eos Ti and Ion, offering powerful Eos functionality in a compact, portable footprint — to fit anywhere and to take on the road.

For productions with less ambitious budgets — but ambitious lighting still to do, ETC offers Ion, with the Eos-brand pedigree but geared to a smaller scale.

Element maintains the Eos operational style but offers a simplified feature set in a stand-alone console, making it ideal for modest rigs that need more basic hands-on fader control.

And for complete control over any rig the future may hold, the most comprehensive ACN network — ETC's Net3™ — is ready. Net3 protocol provides the best traffic management for high-capacity applications, speaking directly to complex devices.

Control

Eos Titanium (Ti)

Eos Ti RPU3

Gio

Ion

Ion RPU

Element

Net3 RVI

Universal Fader Wings

Radio Focus Remote (RFR)

Net3 Gateways

SmartFade and SmartFade ML consoles
[see Smart Solutions chapter]

Sheikh Zayed Grand Mosque

Abu Dhabi, United Arab Emirates

This stunning Middle Eastern cultural landmark is one of the most ambitious lighting projects in the world. From architectural and ambient lighting indoors to artistic illumination outdoors (including a 29.5-day cycle mimicking the phases of the moon), the Grand Mosque stands apart for its lighting control. Four ETC Congo® consoles were used to program the exterior lighting, and the cues are run on six Congo Light Servers™. Specially written ETC control software provides a sophisticated fault-reporting system, ensuring that the 19,000 conventional and 1,250 intelligent-lighting fixtures communicate via RDM and ACN using Net3™ Gateways. The Grand Mosque also employs 52 ETC Matrix Mk II dimmer racks and 15 ETC Unison® CMEi Processors for the architectural lighting control.

Introducing Eos Titanium

Powerful doesn't have to be hard. Eos Titanium, or, Eos Ti™, is the new flagship of ETC's Eos® lighting control line. As professional production values rise, and lighting rigs become more complex, Ti takes the pressure off. Lighting designers and programmers can think less about the mechanics of their system and more about art. The Ti platform — like all Eos-line desks — speaks the language of light: a common-sense syntax and operational clarity that makes show-programming workflow go faster. No 'interpreting' required.

Eos Ti's hardware and software innovations lighten the load. More direct control with stunning multi-touch screens and more visual terrain, plus a generous backlit, user-definable keypad and a potent solid-state hard drive.

Eos Ti® Remote Processor Unit (RPU3)

Run your lighting show with full Eos software and hardware. The Eos Ti Remote Processor Unit is a compact 3U 19" rack-mount device, providing primary and/or backup processing for Eos lighting control systems. It can be used in conjunction with Eos Ti or Ion® consoles and also as a stand-alone lighting playback unit.

EOS TI CONTROL SYSTEM

www.etcconnect.com/eosti

- 4,096 / 8,192 / 12,288 or 16,384 outputs/parameters
- Dedicated master playback fader pair
- 10 definable motorized faders, with 30 pages of control
- 999 cue lists, 200 active playback faders, and 999 submasters
- Dedicated pan/tilt encoders, four pageable encoders
- Two integral articulating 17" LCD multi-touch displays
- Supports three external DVI/SVGA monitors; can be single- or multi-touch
- Device discovery and troubleshooting via RDM
- ETC Sensor® CEM+, CEM3™, and FDX dimmer feedback and controls
- ETCNet2™, Net3™/ACN, Art-Net and Avab® protocols
- Multiple MIDI and SMPTE Inputs
- Client and Offline programming on PC (Windows 7 or XP) and native on Macintosh (Intel only, OS X)
- Show information can be imported from Obsession™, Express™, Expression®, Emphasis®, Congo®, Transtechnik NT, Avab VLC, and Strand 500/300 series show files via ASCII
- Two 802.af-compliant PSE Ethernet ports, individually configurable

ACCESSORIES

- Eos Ti Remote Processor Unit 3 (RPU3)
- Net3 Remote Video Interface 3 (RVI3)
- Net3 Radio Focus Remote (RFR)
- Eos Client Software Kit
- Universal 2x10 and 2x20 Fader Wing
- Remote-control apps for handheld devices: iRFR™ (Apple® devices) and aRFR™ (Android® devices)

EOS TI RPU3

www.etcconnect.com/eostirpu

- 4,096 / 8,192 / 12,288 or 16,384 outputs/parameters
- Supports 3 DVI/SVGA high-resolution monitors (touchscreens optional)
- Two 802.af-compliant PSE Ethernet ports, individually configurable

Gio® control desk

Gio masters the mid-range position in the Eos® family, between the new Eos Titanium™ and Ion® — boasting the same powerful programming DNA. Gio offers Eos functionality and popular operational syntax, in a compact, portable footprint — to fit anywhere or to take on the road.

Gio introduced popular new technologies to the Eos line-up. The desk features backlit buttons to make working in dark places easier (and saves your dimmable Littlites® for seeing your script instead!). Gio also includes two integral, articulating multi-touch displays and supports up to three external displays, all of which can also be multi-touch.

Gio's keypad layout makes moving between Eos-console platforms a snap. And, Gio can integrate into an Eos Ti or Ion system with ease, acting as a primary, back-up, or client console in combination with the rest of the family. All of the accessories for Eos and Ion service Gio as well.

Gio — *more* Complete Control — from ETC.

GIO CONTROL DESK

www.etcconnect.com/gio

- 10,000 channels (devices)
- 2048, 4096, 6144, or 8192 outputs/parameters
- Dedicated master-playback fader pair
- 10 definable motorized faders, with 30 pages of control
- 999 cue lists
- 200 active playbacks
- 999 submasters
- Four pageable haptic encoders
- Two — 12.1" integral multi-touch displays
- High-density live and blind displays
- Electronic magic sheets
- Virtual Media Server Control with stock content (user images may be imported)
- ETCNet2™, Net3™/ACN, Art-Net and Avab® protocols
- Multiple MIDI and SMPTE Inputs
- Client/server networking and synchronized backup
- Offline and Client programming on PC (Windows 7 or XP) and native on Macintosh (OS X Intel)
- Show information can be imported from Obsession™, Express™, Expression®, Emphasis®, Congo®, Transtechnik NT, Avab® VLC, and Strand 500/300 series show files via ASCII
- 12 discrete on-line users with partitioned control
- Seven multipurpose USB ports (pointing devices, keyboard, touchscreens, flashdrives)

ACCESSORIES

- Eos-line Remote Processor Unit 3 (RPU3)
- Net3 Remote Video Interface 3 (RVI3)
- Net3 Radio Focus Remote (RFR)
- Eos-line Client Software Kit
- Universal 2x10 and 2x20 Fader Wing
- Net3 Gateways
- Remote-control apps for handheld devices: iRFR™ (Apple® devices) and aRFR™ (Android® devices)

Ion® control desk

Eos®-brand ease, power and operational style in a small, affordable package. Civic theaters, university stages, worship productions, touring shows — ETC's Ion console brings compact lighting control to any multimedia-filled lighting rig. Ion's small footprint makes it the perfect fit for any ambitious production: use it as a stand-alone system in space-challenged applications or as a remote programming station for an Eos system. Ion's modular design lets you add submaster wings for more hands-on control.

Mouse-free navigation! Ion sports many of the sophisticated features of an Eos, which are accessed through front panel controls or up to two external monitors, with touchscreen capability.

With Ion's add-on Fader Wings you can access up to 300 pageable faders to support main console operation. Connect the wings directly on either side of Ion or use them as stand-alone accessories connected through a USB.

Connect Ion to an Eos system and use it as a convenient facepanel for programming and accessing system information.

Ion Remote Processor Unit (RPU)

The Ion Remote Processor Unit supports stand-alone operation, or can be networked with other Eos or Ion devices for fully synchronized primary/backup operation. Supporting up to two monitors, which can also be touchscreens, and with a small 2U, 19" rack-mount form factor, the RPU supports the full functionality of Ion. It can be used with all Eos/Ion product family accessories. The Ion RPU is available in two parameter counts, 2048 or 3072.

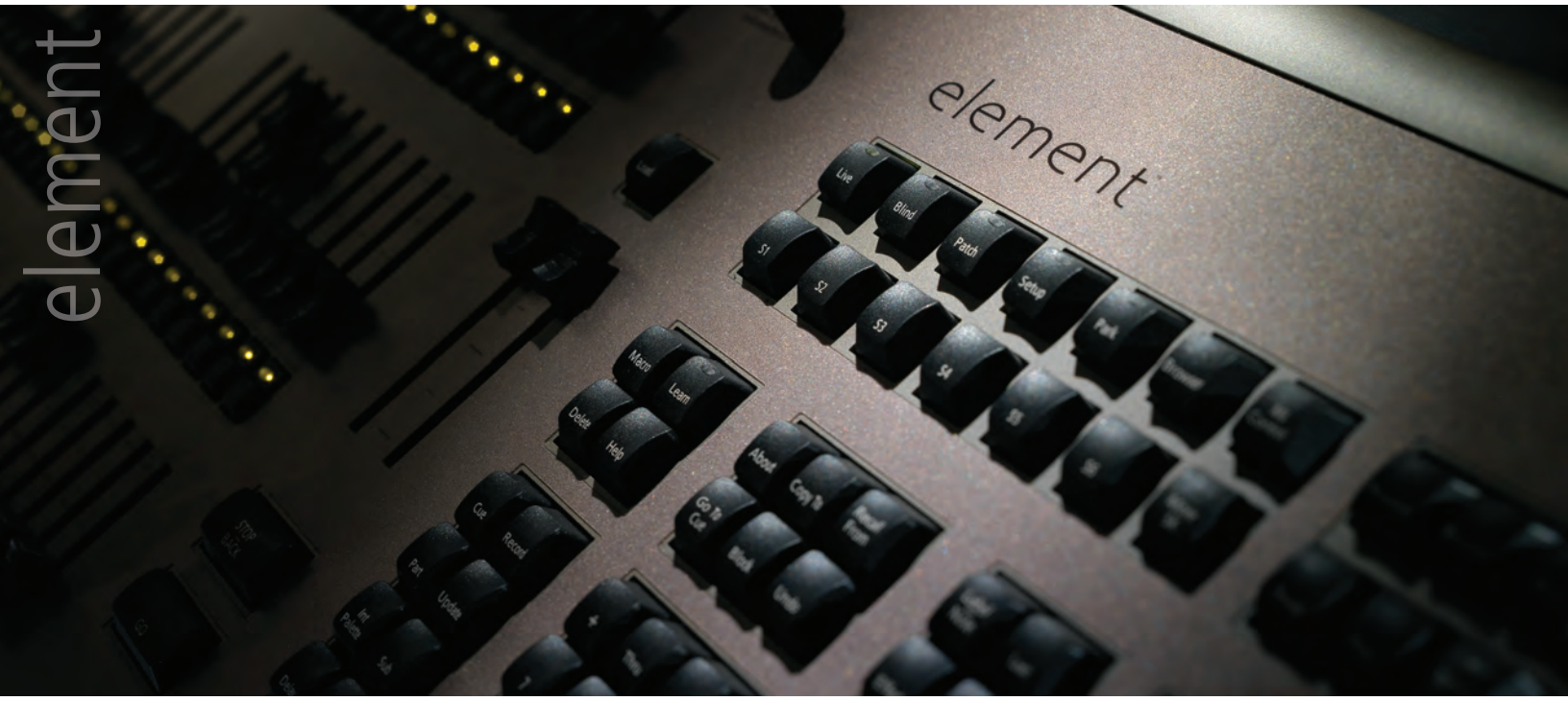
ION CONTROL DESK

www.etcconnect.com/ion

- 1024, 1536, 2048, 2560 or 3072 outputs/parameters
- 10,000 channels (devices)
- Dedicated master playback fader pair
- Dedicated grand master and blackout
- 999 cue lists
- 200 active playbacks
- 999 submasters
- Four pageable encoders
- Channel summary or table views, user configurable
- Blind spreadsheet views
- Direct blind access to all record targets from the facepanel
- Electronic magic sheets
- ETCNet2™, Net3™/ACN, Art-Net and Avab® protocols
- Network feedback from Sensor+™ and RDM devices
- Multiple simultaneous MIDI and SMPTE inputs
- Synchronized backup
- Off-line programming using PCs (XP or Vista) or Mac (OS X Intel)
- Show information can be imported from Obsession™, Express™, Expression®, Emphasis®, Congo®, Transtechnik NT™, Avab VLC, and Strand 500/300 series show files via ASCII
- Four discrete on-line users with partitioned channel control

ACCESSORIES

- Ion Remote Processor Unit (RPU)
- Net3 Remote Video Interface (RVI)
- Net3 Radio Focus Remote (RFR)
- Eos Client Software Kit
- 1x20 Fader Wing
- 2x10 Fader Wing
- 2x20 Fader Wing
- Net3 Gateways
- Remote-control apps for handheld devices: iRFR™ (Apple® devices) and aRFR™ (Android® devices)



Element™ control desk

The basics of lighting control, redefined. Designed for smaller venues, Element provides the simplicity of hands-on control of intensity for up to 120 channels on LTP channel faders. Available in two versions: Element 40, with 40 faders that can be switched from channel to submaster operation with the turn of a switch; and Element 60, with an additional 20 faders that are always in submaster mode.

When you're ready, move up to Element's powerful command-line functions for Go-button playback of timed cues. Command prompts appear on-screen so that you can see real-time, context-sensitive help instructions as you work, making it easy to learn Element's command-line syntax.

Adding more complex devices to your rig for big shows? Element has On Demand ML Controls designed for on-screen manipulation of accessories like scrollers, mirror heads and gobo rotators or more complex devices like LED fixtures and moving lights.

Element is a stand-alone console with onboard DMX outputs and the ability to distribute data via an Ethernet network to ETC Net3™ Gateways, if needed. Element supports connection of Client PCs and Net3 Remote Video Interfaces in Mirror Mode and also supports the Net3 Radio Focus Remote via USB or Ethernet, the iRFR™ for iPhone®/iPod touch® via WiFi, and the Phone Remote.

Winner of a WFX Product of the Year Award.

ELEMENT CONTROL DESK

www.etcconnect.com/element

- 1024 outputs/parameters
- 250 or 500 channels (devices)
- Dedicated master playback fader pair
- Dedicated grand master and blackout
- One cue list
- 300 submasters
- 120 channel faders (40 x 3 pages)
- On Demand ML Controls
- Channel Summary and Table Views
- Blind views with Spreadsheet
- ETCNet2™, Net3™/ACN, Art-Net and Avab® protocols
- MIDI and SMPTE Inputs (SMPTE via Net3 Show Control Gateway)
- Offline programming using PC (XP or Vista) or Mac (OS X Intel)
- Show information can be imported from Obsession™, Express™, Expression®, Emphasis®, Congo®, Transtechnik NT™, Avab VLC, and Strand 500/300 series show files via ASCII

ACCESSORIES

- Net3 Remote Video Interface (RVI)
- Net3 Radio Focus Remote (RFR)
- Element Client Software
- Phone Remote
- Touchscreen compatible
- USB keyboard and mouse, optional
- Remote-control apps for handheld devices: iRFR (Apple® devices) and aRFR™ (Android® devices)

Net3 Remote Video Interface™ (RVI)

View console functions from the tech table or designer's work spot. The Remote Video Interface is a convenient 2U 19" rack-mount device that provides remote video and local programming functions for Eos Ti™, Gio®, Ion®, and Element™ desks. Controls on the front of the unit include the power switch, USB port and 20 buttons for commonly used functions. These buttons have default mapping, reflecting commonly used features for the designer or assistant designer. Eos Ti, Gio, and Ion provide the ability to easily reprogram these keys as your system requires. When the RVI is used with an Eos Ti, Gio, or Ion — Net3™ RFRs and Universal Fader Wings can be attached via USB.

Universal Fader Wings

Modular hands-on control. ETC's Universal Fader Wings are accessories for Eos Ti, Gio, and Ion desks. The compact Wings offer flexible playback options at an economical price. The Wings may be connected physically to either side of the Ion or may be used as stand-alone wings connected to the Eos Ti, Gio, or Ion with a provided USB cable. Also available for the Ion and for rack-mount installations, the economical 1x20 Universal Fader Module offers 20 faders without LCD displays. This module fits across the top of the Ion, and can be mounted into a 19" equipment rack.

Net3 Radio Focus Remote™ (RFR)

Powerful wireless solution for remote control. Compatible with the Eos Ti, Gio, Ion, and Element, ETC's Radio Focus Remote handheld transmitter unit provides immediate access to frequently used commands for dimmer and channel checks and offers an array of soft keys for more advanced functions. Soft keys and status information from the console are displayed on the handheld's OLED display. The small receiver unit plugs directly into and is powered by a USB connection on the desk or a powered Ethernet connection in your lighting network.

NET3 REMOTE VIDEO INTERFACE (RVI)

www.etcconnect.com/RVI

- Supports up to two DVI/SVGA high-resolution monitors (touchscreens optional)
- USB ports for pointing devices, alpha-numeric keyboards or other control devices
- Front panel LEDs to indicate status
- Compatible with Eos Ti, Eos®, Gio, Ion, and Element desks

UNIVERSAL FADER WINGS

www.etcconnect.com/faderwings

- Modular design
- Local or remote power/data
- 20 or 40 faders
- One or two LCD displays for labeling
- Two keys per fader for various functions (based on current mapping)
- Direct or remote connection via USB
- 1x20 Universal Fader Module fits directly on console
- Module offers rack-mount option
- Wings and modules compatible with Eos Ti, Eos, Gio, Ion, Eos/Ion RPUs, Net3 RVI, and Eos Client PCs

NET3 RADIO FOCUS REMOTE (RFR)

www.etcconnect.com/RFR

- Handheld transmitter
- Generous radio range
- Bright and easy to read OLED display for Softkeys and System Feedback
- Dual Encoders with integral switches for variable control of intensity and other moving-light parameters
- Hard and soft keys for commonly used commands and advanced functions
- Programmable Sleep feature
- On/Off switch
- Supports multiple systems operating separately in same area
- Plugs into USB or powered Ethernet connection
- Belt clip and wrist strap/lanyard hanging point
- Compatible with Eos Ti, Eos, Gio, Ion, and Element desks

Net3™ Networking

Network at the speed of light. ETC's powerful Net3 gives you an open network with the highest degree of reliability. Net3 products use industry-standard ACN communications to migrate functions of existing protocols into a network-native environment. Net3 allows you to connect to any network and start controlling the system.

Continuing to lead the industry's development of the ESTA standard for ACN and related protocols, ETC is committed to a plug-and-play environment for networked systems and cooperative protocol support for all lighting manufacturers' products.

ETC pioneered Ethernet-based networking in lighting systems. ETCNet™ gave you plug-and-play simplicity and the power to transmit DMX, video, and remote-focus data on a single wire. ETCNet2™ took you to the next level with a fully switched TCP/IP network with innovations such as EDMX, ETCLink™ over Ethernet, Unison® architectural integration, prioritized control, and HTP merging of multiple control sources. Net3 pushes the boundaries further, proving that — protocols aside — not all networks are created equal.

OVERALL FEATURES

Real-time dynamic feedback
Simple setup and configuration
Tested beyond standard-use applications for failure prevention and assured performance

Net3 Four Port DMX/RDM Gateway

Net3 Two Port DMX/RDM Gateway

Net3 One Port Gateway

Net3 I/O Gateway

Net3 Show Control Gateway

NET3 FOUR PORT DMX/RDM GATEWAY™

- Net3/ACN native, and sACN (DMX over Ethernet)
- Modular output ports for flexible configuration
- 5-Pin XLR, RJ45, and terminal options
- DMX and RDM support for any Net3 console/Net3 Concert™ software
- Portable and rack-mount options
- Powered using Power-over-Ethernet (PoE 802.3af) or AC adapter

NET3 TWO PORT GATEWAY™

- Net3/ACN native and sACN (DMX over Ethernet)
- Input (M) or output (F) connector
- DMX and RDM support for any Net3 console/Net3 Concert™ software
- Portable and wall-mount options (wall-mount uses two-gang backbox)
- Powered using Power-over-Ethernet (PoE 802.3af) or AC adapter

NET3 ONE PORT GATEWAY™

- ETCNet, ETCNet2, and Net3/sACN (DMX over Ethernet)
- Portable and wall-mount options (wall-mount uses single-gang backbox)
- Powered using Power-over-Ethernet (PoE 802.3af) or low-voltage adapter

NET3 I/O GATEWAY™

- Net3/ACN native
- 16 contact closures (single-pole, double-throw outputs)
- 24 analog/digital inputs
- RS-232 serial port
- Portable or rack-mount options
- Powered using Power-over-Ethernet (PoE 802.3af) or AC adapter

NET3 SHOW CONTROL GATEWAY™

- Supports MIDI Show Control and MIDI Time Code to Net3 consoles
- Net3/ACN native
- MIDI in/out/through
- SMPTE input for timecode synchronization
- Portable or rack-mount options
- Powered using Power-over-Ethernet (PoE 802.3af) or AC adapter

ETC Smart Solutions™

No production is too small to have great lighting systems by ETC. Our Smart Solutions mean simple but powerful compact lighting gear for every event—gigs, industrials, touring productions, school plays, house-of-worship pageants, festivals, small theaters, and more. Set up anywhere and light like a pro. There are even Smart Solutions for your permanently installed lighting needs. ETC lighting quality, at a smart price.

Smart consoles! SmartFade® and the award-winning SmartFade ML™ are the little ETC boards with the big console attitudes. Portable but powerful—SmartFade and SmartFade ML work as main control boards or as back-up consoles. They're ideal for beginners or pros. And SmartSoft™ software on your PC or Macintosh computer adds enhanced displays and interactive controls to your console.

ETC's SmartPack® dimmers with SmartLink® provide ETC performance in economical units that fit into any space. Choose the SmartPack Portable Pack for temporary, rack-mounting in any space, or the SmartPack Touring System—a little road warrior with professional dimming power. For permanent installations, there is the budget-friendly power of SmartPack Wall Mount.

Need the flexibility of distributed dimming? With ETC's SmartBar 2® or SmartModule 2™ you can place your dimmers wherever you need to—near your fixtures, on the floor, in the truss, under the set—for maximum lighting control convenience. SmartBar 2 and SmartModule 2 are both designed to offer out-of-the-box dimming solutions. Each can be used wherever and whenever specific performances demand flexibility within a lighting system. Both dimming products are self-contained, with on-board processing, local and remote control and output connectors.

ETC's SmartSwitch® with SmartLink is a cost-conscious architectural control solution when you need no-nonsense 'on-off' relay functionality for any light. SmartLink is a budget-minded lighting control system for basic applications, allowing you to recall lighting looks with the push of a button. (Easy remote control of presets and sequences in Unison® DRd, SmartPack, and SmartSwitch!)

Smart Solutions control

SmartFade

SmartFade ML

SmartSoft software

Smart Solutions dimming

SmartPack Portable Pack

SmartPack Wall Mount

SmartPack Touring System

SmartBar 2 dimmer bars

SmartModule 2

SmartStand

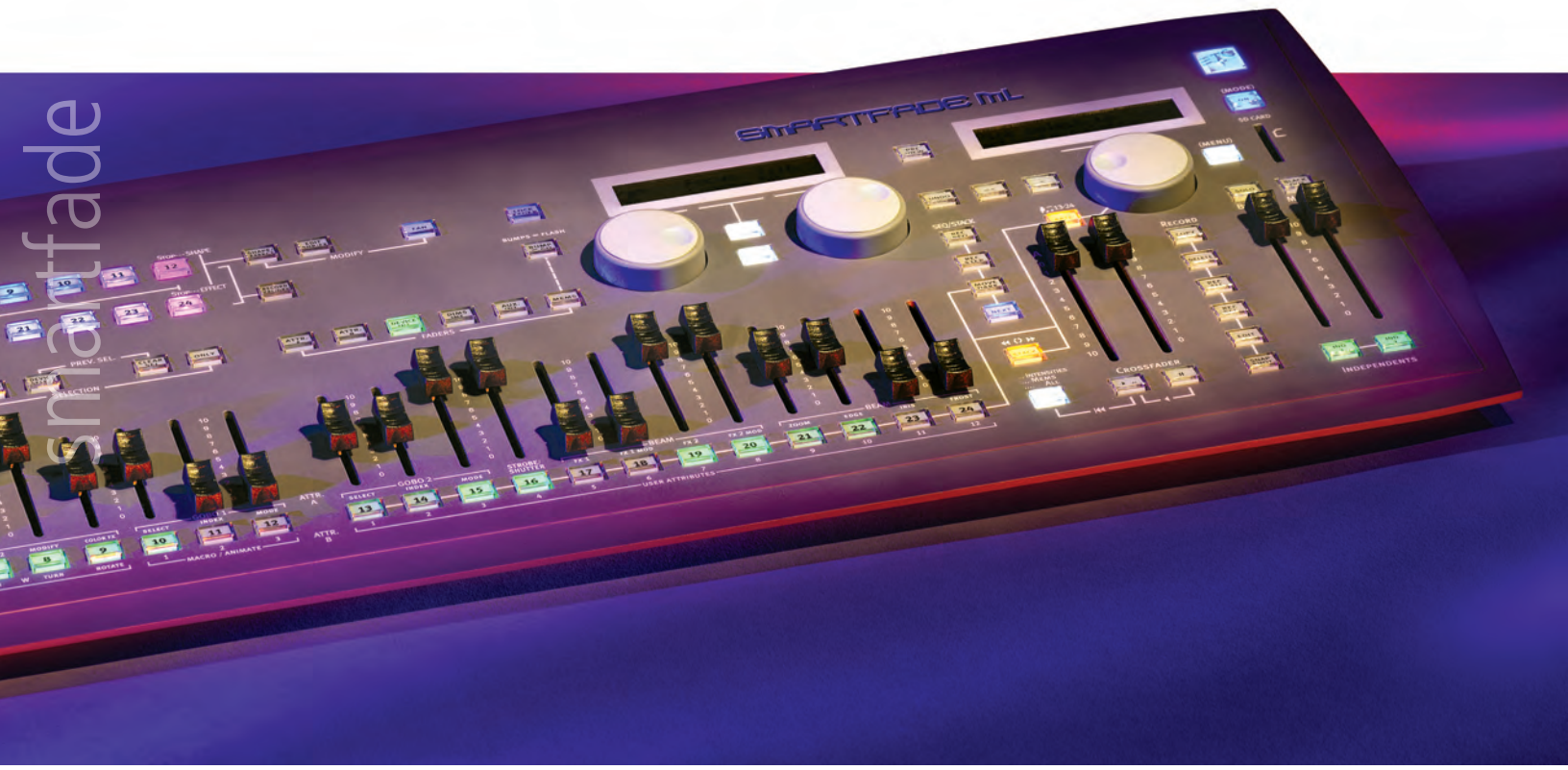
SmartSwitch

SmartLink Control
[see Architectural chapter, page 80]

Blackhawk Church

Madison, Wisconsin

Blackhawk Church's expansive facility includes several busy worship spaces, multi-use rooms, and offices. To keep up with the lighting needs for their schedule of worship services, special productions, and day-to-day activities, Blackhawk employs ETC's versatile and economical SmartFade control console. One board for all levels of expertise. Ministry leaders can design the lighting for events beforehand, and then volunteers can easily play back the looks on the SmartFade—changing the lighting on-the-fly, as needed. Compact and lightweight—SmartFade is also easy to take from one space to another. Blackhawk can even use it outdoors. One lighting board serves many needs—saving on tight church budgets and time.



SmartFade® control desks

Perfect for small theaters, touring shows, schools, and houses of worship, or as backup consoles in larger systems, ETC's SmartFade lighting control consoles are lightweight, portable, and packed with features. The SmartFade 1248 and 1296 can be fitted with a bracket for use in an equipment rack. The slightly wider SmartFade 2496 doubles the available control channels and faders, while adding only nine inches of width. From its basic Two Scene mode to the full-featured Normal mode, SmartFade is flexible enough to suit beginners or experienced operators. SmartFade's DMX Backup mode provides systems designers with a simple solution for console backup and stage manager's panels. Able to capture the state of an entire DMX universe and store 24 or 48 individual memories, the DMX Backup mode can take over automatically in the event of a main-console failure.

SmartFade ML™ control desk

Control over moving lights! Winner of *two* WFX product awards, SmartFade ML is one powerful little lighting desk. Compact, versatile, and simple to use, ML builds on the concepts of SmartFade, adding intuitive control for automated fixtures. Direct fixture-select keys show the current color mix so that managing small rigs is simple. SmartFade ML's memories, sequences and cue stack provide flexible playback options. Backlit elastomer buttons make it easy to operate ML in dark locations. And for more information fast, simply connect your PC running the SmartSoft application, to gain editing and display options unheard of on a desk of this size. SmartFade ML offers two DMX ports for 1024 outputs and has a capacity of up to 24 moving lights and up to 48 conventional dimmers, as well as built-in effects. The direct parameter controls on SmartFade ML's 24 faders makes moving lights accessible to anyone.

SmartSoft™ software

Compatible with SmartFade and SmartFade ML, SmartSoft runs on a PC or Macintosh computer and connects to your console via USB, for real-time displays and editing functions. This software can also be used as an offline editor or a learning tool. SmartSoft is available as a free download from ETC at www.etcconnect.com/downloads.aspx

SMARTFADE CONTROL DESKS

www.etcconnect.com/smartfade

- 1248, 1296 and 2496 versions
- Two Scene mode, Normal mode and Backup mode
- DMX Out/DMX In (full universe)
- MIDI In and MIDI Out connectors
- USB port for connection to optional SmartSoft PC display software (PC not included with console)
- Use with or without SmartSoft PC display software
- Sequences (48 24-step sequences and a 199-step cue stack)
- Manual, timed and rate-override playback
- Magic function creates random output and sequences
- Snapshots for temporary storage of looks
- SD card slot for show backup
- LCD menu for configuration and preview
- English, French, German, and Spanish language support

SMARTFADE ML CONTROL DESK

www.etcconnect.com/smartfadeML

- 24 moving lights and 48 separate dimmers
- 1024 outputs on 2 x DMX connectors
- Built-in moving light personalities
- Color-coded button function, including indication of color mix for fixtures
- Dual LCD screens and 3 encoder dials for control, level indication, and menu display
- Move-while-dark and parameter fan features
- 24 each of Groups, Focus, Color and Beam Palettes
- Focus and Intensity Effects built in
- 10 Snapshots
- 288 memories
- 144 24-step sequences
- 1 cue stack of up to 199 steps
- USB port for connection to optional SmartSoft PC display software (PC not included with console)
- Use with or without SmartSoft PC display software
- MIDI remote control in and out, compatible with SmartFade and music sequencers

Smart Solutions™ in power control

Don't compromise on power because of size requirements. ETC developed a family of affordable power control products built to the scale and needs of smaller productions and venues: restaurants, houses of worship, TV studios, video shoots, schools, industrials, semi-professional touring shows, and beyond. Smart Solutions provide standard phase-control dimming in a super-compact form, plus ETC reliability and service at a smart price.

Three convenient SmartPack® choices mean dimming for everyone. Available with either six 2400-watt dimmers or twelve 1200-watt dimmers, the SmartPack Portable Pack is the flexible, plug-and-play solution for small entertainment events, school and house-of-worship productions, or roadshow applications. SmartPack Wall Mount is for space-starved venues that need permanent, affixed dimming with a small footprint, such as restaurants, clubs, school auditoriums, and houses of worship. Both SmartPack versions do DMX and SmartLink® architectural control. Plug in a SmartFade® lighting console for easy programming and let SmartPacks run on their own, or access the 32 built-in presets and internal sequencer remotely via SmartLink button stations. Both SmartPack Portable Pack or SmartPack Wall Mount can run the presets in sequence automatically. By simply adding a low-cost LinkConnect Station Power Supply, you can access the presets and sequence from ETC's SmartLink button stations or TimeClock.

Hit the road! The SmartPack Touring System is a small, flexible touring rack with incredible reliability and performance. Perfect gear for anything from weekend gigs to regional festivals and small touring productions. The rack has built-in mains distribution—all in one box—and, like the other SmartPacks, is one of the most lightweight and portable systems made. The rugged SmartPack Touring System allows you to choose your pack style: 10A or 20A and your choice of outputs. The system provides you with what you need for a simple show—power distribution, including convenient outlets; as well as all the standard SmartPack features. Thanks to SmartLink you get added flexibility for pack-to-pack communication and synchronization of the presets and built-in sequence.

SMARTPACK

www.etcconnect.com/smartpack

SMARTPACK PORTABLE PACK

- 19″ two-space (2U) rack-mount enclosure
- Wide range of output panel options
- Built-in presets (32) and sequencer for stand-alone operation
- Fully-rated all-magnetic circuit breakers
- DMX512A compatible
- UL and cUL Listed
- SmartLink-enabled

SMARTPACK WALL MOUNT

- Compact wall-mount unit
- 6 x 20A or 12 x 10A dimmer packs available
- True SCR reliability based on acclaimed ETC Sensor® dimming technology
- Standard output connections via DIN Rail terminals
- Fully-rated all-magnetic circuit breakers
- Built-in presets (32) and sequencer for stand-alone operation
- Built-in SmartLink control provides pack-to-pack communication of presets and sequences, with optional stations

SMARTPACK TOURING SYSTEM

www.etcconnect.com/smartpacktouring

- Built-to-travel roadcase systems
- 2- or 4-pack system available
- Cam-Lok® power input
- Circuit-breaker power distribution per pack
- Optional main breaker and Cam-Lok Feed Thru
- DMX512A compatible
- UL and cUL Listed
- SmartLink-enabled

SmartBar 2®

SmartBar 2 gives you distributed dimming for smaller portable or permanent installations—without busting your budget. It provides an integrated dimming and fixture-mounting solution for compact, low-wattage applications such as rentals, industrials or small touring productions. *Plug in and play.* Schools, churches, community theaters, gigs, and outdoor events benefit from SmartBar 2's easy, 'no-professional-required' setup. No ladders necessary either. SmartBar 2 is fully digital, with operational and programming features similar to SmartPack®—presets, chases, choice of dimmer curves—as well as many new features. A lighting control console is optional, thanks to SmartBar 2's chases and local control, but pair it with a SmartFade® board and you have the perfect production combination. And a SmartBar 2 high-power option is available to handle twice the fixtures on a four-circuit bar!

SmartModule 2™

SmartModule 2 combines a proven dimmer design with portable packaging to provide yet another Smart Solution. Available with either four or six dimmers, SmartModule 2 comes in a convenient convection-cooled package, with your choice of output connectors. An integrated module includes local control capabilities and 20 pre-programmed chases for unattended operation. Each dimmer curve may be changed at the control module, which also provides a DMX In and Thru connector. Combine SmartModule 2 with SmartBar 2 for 'anywhere dimming,' anytime.

SmartStand™

ETC's SmartStands are the perfect complement to your SmartBars. The crank-up stand can easily be loaded with a dimmer bar and lighting fixtures, providing great illumination for events in conference and convention rooms, gymatoriums and cafetoriums, studios and black-box spaces. The SmartStand provides a convenient, safe alternative to rigging or homemade hanging positions.

SMARTBAR 2

www.etcconnect.com/smartbar2

- 2, 4, and 6 circuit
- 1200W circuit-breaker load protection per output
- Integrated digital dimming
- Choice of output connectors
- Programmable functions such as min/max levels, fade times, non-dim operation and dimmer curves
- Built-in chase sequences
- DMX In and Thru connectors
- RDM identification and remote addressing
- Optional high-power bars available with two 20A power leads
- UL and cUL Listed

SMARTMODULE 2

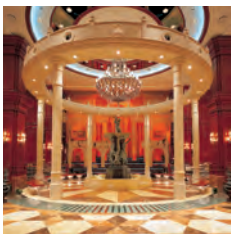
www.etcconnect.com/smartmodule2

- Four or six dimmers
- Single-phase 3-wire plus ground, 20A feed for the 4-circuit modules
- Three-phase 4-wire plus ground, 20A feed for the 4-circuit modules
- 1200W circuit-breaker load protection per output
- Choice of output connectors: stage pin, Edison, twist-lock (and 6-circuit veam)
- Stand-alone operation with chase sequences
- UL and cUL Listed

SMARTSTAND

www.etcconnect.com/smartstand

- Perfect platform for SmartBar 2 and Source Four® fixtures
- Heavy duty stand rises to height of 12’
- Fold-away hand crank for gradual height adjustment
- Double risers extend simultaneously
- Articulating leg to level stand on uneven surfaces
- Sturdy adjustable footstep



SmartSwitch® with SmartLink®

ETC's SmartSwitch is the cost-conscious architectural control solution when you need no-nonsense 'on-off' relay functionality for any light source. SmartSwitch controls your relays via SmartLink control, DMX, or in stand-alone operation with 32 presets and a sequence. Holding 24 or 48 relays, these compact panels bring the fundamentals of 120 to 277 volt switching to applications like schools, restaurants, ballrooms, multipurpose rooms, houses of worship, office buildings, and entertainment facilities with DMX control.

Flexible and adaptable, SmartSwitch handles a wide variety of load types and will grow with you: if you need more functionality, just add more relays. Simply add a LinkConnect Station Power Supply, and you can control SmartSwitch using ETC's SmartLink button stations or TimeClock.

Designed to combine with ETC's SmartPack® Wall Mount dimming, SmartSwitch completes a budget-saving system.

SmartLink Control

Cost-saving, fuss-free lighting control for basic applications. Recall your lighting looks with the push of a button. No need for software: you can connect ETC's SmartPack, SmartSwitch, Unison® lighting control systems, and more—and share preset and sequence control between them. When you add SmartLink Station Power Modules and SmartLink stations, you can remotely command those presets and sequences and easily address which presets a station activates. [For more information on SmartLink, see the Architectural chapter.]

SMARTSWITCH 24

- Smart compact cabinet holds up to 24 relays
- Rugged-steel industrial enclosure
- Manual or DMX control of relays
- Mechanically latching 20A H.I.D. rated relays by Panasonic
- Single-pole (120/277V) and double-pole relays (208/240V)
- Supports multiple load types
- Relays can be added in the field
- Voltage barrier for discrete relay power feeds
- Common programming with SmartPack dimmers
- Built-in SmartLink control provides pack-to-pack communication of presets and sequences, with optional stations

SMARTSWITCH 48

- Smart compact cabinet holds up to 48 relays
- Rugged-steel industrial enclosure
- Manual or DMX control of relays
- Mechanically latching 20A H.I.D. rated relays by Panasonic
- Single-pole (120/277V) and double-pole relays (208/240V)
- Supports multiple load types
- Relays can be added in the field
- Voltage barrier for discrete relay power feeds
- Common programming with SmartPack dimmer
- Built-in SmartLink control provides pack-to-pack communication of presets and sequences, with optional stations

ETC Power Control and Distribution

Sensor's acclaimed dimming has evolved — to Sensor3 Power Control. Entertainment lighting has entered the most radical period of change since the transition from carbon-arc to tungsten light sources. New types of fixtures are everywhere — in theater, broadcast production, and architectural applications. Sensor3 Power Control is designed to handle change. For thousands of venues and productions worldwide, ETC's power-handling systems are the trusted workhorses behind the scenes and on the road, chosen for adaptability, reliability and longevity.

The ideal new theater design or retrofit uses a hybrid lighting system that can accommodate all loads — tungsten, LEDs, arc-source movers. The new Sensor3 ThruPower Module allows you to switch freely between constant power, on/off switching with air-gap relays, and dimming for your lighting loads.

ETC's CEM3™ is the powerful new platform for Sensor3 Power Control, giving you high performance, easy-to-use control, plus rock-solid system backup. And ETC's Net3™ offers Ethernet-native connectivity to the highest quality systems with options for any venue. Sensor3's tight integration with ETC consoles makes it an extension of them, for unparalleled system management, even when you're working remotely. And any ACN-based software or console can be seamlessly integrated into the Sensor3 system.

Power distribution is as important in a high-stakes entertainment or architectural-lighting system as any of the more glamorous system components. From junctions and outlet boxes to connector strips and more, ETC gives you the most durable, reliable and affordable distribution solutions. We're also specialists in custom distribution. Whatever the size or scale of the lighting installation, we'll tailor the distribution to meet your needs.

ETC Power Control

Sensor3 Power Control Installation Rack

Control Electronics Module (CEM3)

Sensor Modules

Sensor3 Touring Rack

Sensor3 Portable Pack

Echo Relay Panel

Echo Preset Station

Smart Solutions dimming [see Smart Solutions chapter]: SmartPack Portable Pack, SmartPack Wall Mount, SmartPack Touring Systems, SmartBar 2, SmartModule 2, SmartStand

ETC Distribution

Connector strips

Gridiron junction boxes

Pigtail and outlet boxes

NEMA wall plates

Floor pockets

Retractable Lighting Position (RLP)

Palazzo Hotel and Resort

Las Vegas, Nevada

Thanks in part to ETC products, the Palazzo Las Vegas is one of the greenest hotel and resort complexes on the Strip and one of the largest LEED-certified structures. Energy-efficient building-control systems are a cornerstone of LEED compliance. ETC Sensor dimming and a Unison® lighting control system were part of the installed lighting package, plus more than 100 ETC Source Four® fixtures, which are an energy-frugal standard. The Unison system is programmed to save energy through occupancy sensing and daylight harvesting, as well as performing astronomical functions and interfacing with photo cells. The Palazzo's annual savings in electricity is reckoned to be more than 10.6 million kilowatt hours. Palazzo demonstrates that an upscale property can meet standards for quality, beauty, and environmental responsibility simultaneously. Palazzo's lighting gear list includes 50 ETC dimmer racks, 97 Unison stations,1847 ETC dimmer modules, 52 Source Four HID 150W fixtures, and 50 Source Four 375W fixtures.

Photo © Blake Marvin

Sensor3™ Power Control Systems

Superior design for better performance. ETC's Sensor3 Power Control systems are workhorses for venues ranging from schools and houses of worship to TV studios, theaters, concert halls and opera houses worldwide, adapting to today's hybrid rigs and rapidly changing lighting needs.

With CEM3 (Control Electronics Module) control, you are assured optimized power-handling through options such as 16-bit control, ultra-vigilant voltage regulation, and plug-in modules that have been engineered for tool-free, effortless replacement. Designed to interface fully with Net3™, Sensor3 provides remote management to the lighting console and master electrician's computer.

Sensor3 ThruPower modules allow free mixing of dimming, switching and constant power on a circuit-by-circuit basis without your having to replace hardware in your Sensor® system. Sensor's plug-in modularity allows for more configurability, customization and easy maintenance. To meet your system's unique needs, Sensor modules are available in a wide variety of risetimes and amperages.

And you can take advantage of ETC's innovative Dimmer Doubling™ (twice the control, half the circuits) and save further on dimmer costs.

SENSOR3 INSTALLATION RACK AND CEM 3

www.etcconnect.com/sensor3installrack

SENSOR3 INSTALLATION RACK

- 6-, 12-, 24-, and 48-module configurations
- 12- to 96-circuit configurations
- Front-access installation with easily accessible line, load and control terminations
- Single- or three-phase operation (SR48 is three-phase only)
- 100V, 120V, and 230V versions, 50/60Hz
- Neutral Connect (GFCI) and Delta versions available
- 100,000A Short Circuit Current Rating (SCCR)
- UL924 Listed for emergency-lighting bypass
- Compatible with Net3 Concert™ software

CEM3 CONTROL MODULE

- Works with any Sensor dimmer rack or pack
- Graphical LCD display and number-pad user interface
- Direct Net3 Ethernet control and two DMX inputs
- Up to 16 spaces with 16 presets per space
- Emergency/Panic interface
- Supports Advanced Features (AF) option
- Supports ETC Dimmer Doubling
- Existing Sensor racks are upgradeable
- 16-bit control option

SENSOR MODULES

www.etcconnect.com/sensor3modules

- Variety of modules to meet all needs
- 10 to 100A ratings
- 350, 500, or 800µs risetimes
- ThruPower, GFCI and Delta modules available

Sensor3 Touring Rack™

Sensor3 Touring Racks are the standard in the industry, with more units on the road than any other brand. Lighting professionals trust only Sensor3 for their high-stake concert tours and road shows. Show after show, city after city, Sensor3 Touring Racks deliver the level of reliability and durability of permanently installed dimmers.

Thousands of Sensor3 Touring Racks roll onto stages worldwide each day, making the tour grind easier with their high-density modular design, fully magnetic circuit breakers, network communication, and remote monitoring capabilities. Their lighted patch bays and output panels, plus flexible connectivity, simplify set-up. And now, with CEM3 power control, networking your touring systems is easier and more flexible.

Sensor3 Portable Pack™

World-class performance, industrial-strength construction and an array of connection options make Sensor3 Portable Packs the professional choice for smaller touring shows, industrial rentals, compact video productions, and rehearsal spaces.

Sensor3 Portable Packs deliver built-in features that many installation racks would envy: modular design and fully magnetic circuit breakers. Add to that optional Advanced Features communication and remote monitoring options.

SENSOR3 TOURING RACK

www.etcconnect.com/sensor3touring

- Rugged design and construction based on years of road-tested performance
- Available in 24- and 48-module configurations
- Up to 48 and 96 20A circuits (50A and 100A available)
- ThruPower modules available
- Cam-Lok® power input and pass-through connectors
- Full complement of Multi-pin and discrete connectors available on all racks
- Two or four patch outputs per channel
- Rack options include bump buttons, custom output panels, motor power, and moving-light power
- Direct Net3 Ethernet control and two DMX inputs
- Supports Advanced Features (AF) option
- Supports ETC Dimmer Doubling™

SENSOR3 PORTABLE PACK

www.etcconnect.com/sensor3portable

- Available in 6- and 12-module configurations
- Up to 12 or 24 20A dimmers (50A and 100A available)
- ThruPower module available
- Cam-Lok input connectors
- Pass-through Cam-Lok connectors available
- Many output options available
- Optional castered cart available
- Direct Net3 Ethernet control and two DMX inputs
- Supports Advanced Features (AF) option
- Supports ETC Dimmer Doubling

Introducing Echo Relay Panel™

ETC's Echo Relay Panel answers the call for more inventive power distribution in today's advanced lighting systems. By accepting a mains power feed to the cabinet, the panel distributes switched power from built-in relays and can optionally provide 0-10V control for LEDs or fluorescent fixtures. The rack can be controlled using industry-standard DMX or over Ethernet. It can also store presets that can be recalled from Echo Preset Stations. The EchoConnect control network allows up to six stations and six panels to be connected together. The 120V Echo Relay Panel can be configured for one-, two-, or three-pole relays and 10, 15 or 20A branch breakers. Its narrow width allows it to be conveniently surface mounted or recessed between standard wall studs. At 20 inches wide and six inches deep, the 277V model offers one-pole breakers and relays. All panels display breaker state, relay state and energy usage per branch circuit.

Introducing Echo Preset Station™

ETC's Echo Preset Stations allow the recall of presets in ETC power-control products that support EchoConnect. Each station provides five or ten buttons and is designed to complement the look of any interior environment. In standard or customized colors, the Echo Preset Stations suit any space — schools, meeting rooms, houses of worship, restaurants, hotels, and convention centers. The Echo Preset stations are also simple to install using EchoConnect and require no software for configuration.

ECHO RELAY PANEL

www.etcconnect.com/echorelaypanel

- Two models: 120V (ERP) or 277V (ERPA)
- Recess or surface-mounted
- 30-space breaker subpanel included
- Freely mix one-, two- and three-pole 20A relays
- 20A HID-rated latching relay with 100,000 cycle rating
- Energy usage, breaker state, and relay status available per relay
- EchoConnect station bus
- Built-in presets and sequencing
- Ethernet card for sACN control
- Low-voltage 0-10V control
- DALI control
- Ten-button preset station
- Contact input

ECHO PRESET STATION

www.etcconnect.com/echopresetstations

- Preset activation from Echo Relay Panel and Sensor3™ Power Control system
- Five- or ten-button options
- Five color options: cream, ivory, gray, black, or white
- Topology-free wiring infrastructure
- Up to 1,640 feet of station wiring

Distribution

Innovative power distribution to match the art of lighting. ETC's distribution products have been engineered for easy customization, shipment, installation, and service. Combine data and power for your intelligent lighting needs with optional DMX or Ethernet within connector strips. Every installation is unique. ETC gives you the individual attention you need: prompt quotes, customized drawings, and customized product.

OVERALL FEATURES

- UL Listed
- Stage Pin, Twist-Lock®, Edison, and/or TRUE1 connectors standard (others available)
- Connector strips available with DMX or network connectors
- Labels (standard) with options for engraved Lamicoid or engraved aluminum covers
- Terminals are clearly labeled (printed snap-in labels)
- Easily configurable wiring and circuit placement
- Corrosion-resistant galvanized steel construction
- Textured powder-coat, scratch-resistant black finish standard
- Available in custom configurations, lengths, and colors
- Optional LED indicators per circuit output

CONNECTOR STRIPS

www.etcconnect.com/connectors

- Available with DMX or Ethernet
- DIN rail-mounted screwless "tension clamp" terminals
- Innovative shipping packaging
- Widest assortment of mounting and hanging hardware
- Optional LED indicators per circuit output

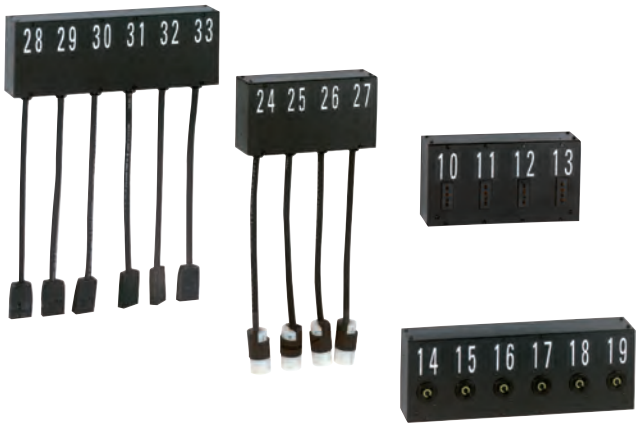
GRIDIRON JUNCTION BOXES

www.etcconnect.com/junctionboxes

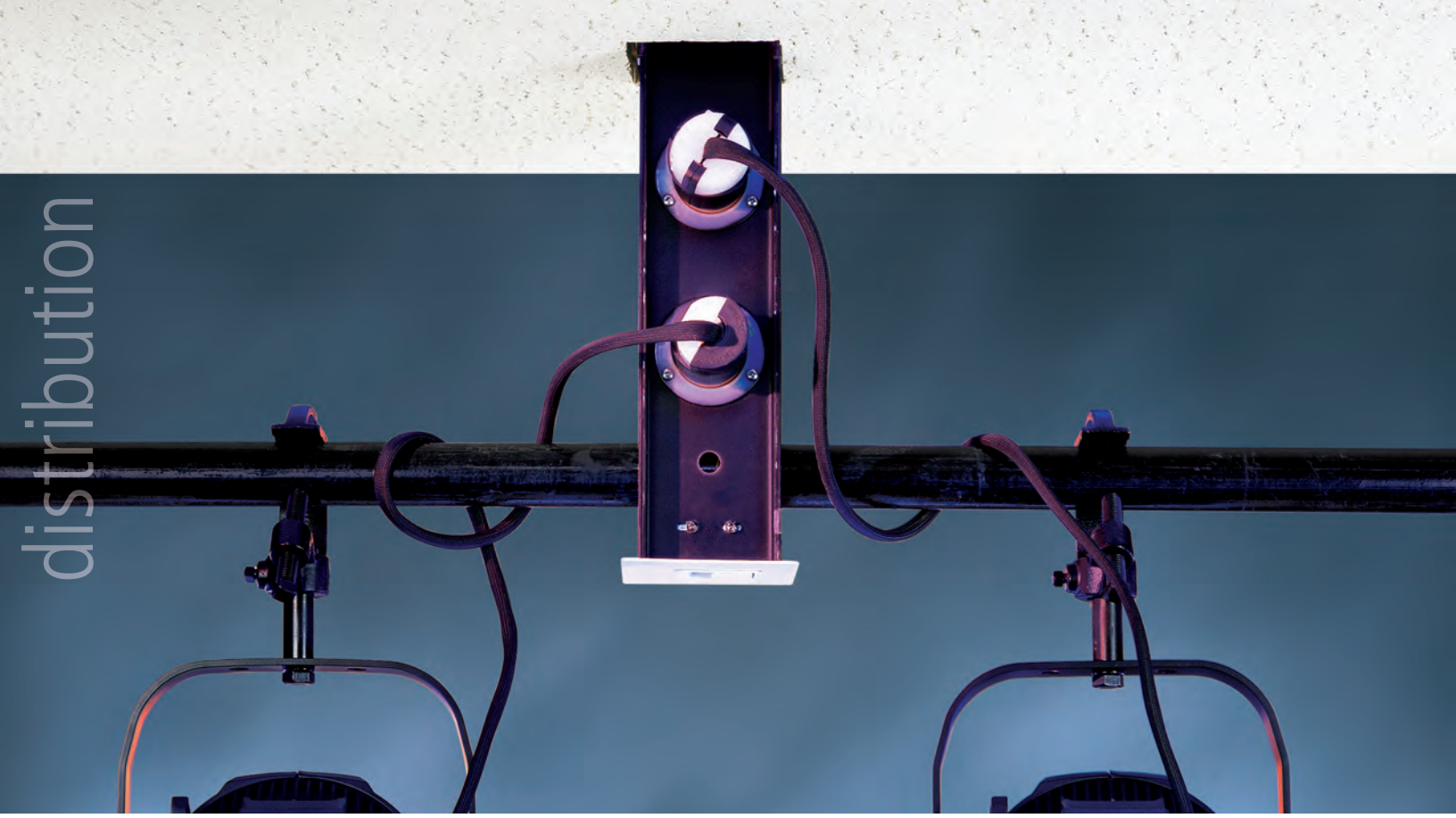
- Two sizes—up to 30 or up to 60 circuits
- DIN rail-mounted terminals can be field reoriented for easier installation
- Hinged covers, mountable in any orientation
- Standard 20A circuits (other ratings available)
- Easy connection for conduit circuit runs or drop cables

PIGTAIL AND OUTLET BOXES

www.etcconnect.com/outlets



- Four low-profile sizes (6", 12", 18", 24")
- Dense versions—1.25" spacing (3-8 circuits, Stage Pin only)
- Recessed, surface, U-bolt and C-clamp mountings
- 14-gauge steel end caps
- Terminals included with pigtail boxes
- Choice of connector types
- Wall pockets available (up to 6 circuits)
- Optional LED indicators per circuit output



NEMA-Style Wall Plates

An inexpensive alternative to surface and recessed outlet boxes, ETC's NEMA-style Wall Plates are available for Stage Pin, Edison and Twist-Lock® connectors. Made for use with industry-standard back boxes, the wall plates are easy to install and easy to wire. The wall plates are one more part of an innovative family of distribution products, all with uniform look and reliability.

Floor Pockets

Every theater needs them! Flush with the stage surface and located around the perimeter of the stage, floor pockets provide a safe connection for set lights, shin busters, and ground rows. Designed to fit the needs of data, video and audio applications, floor pockets are a flexible addition to your distribution package.

Retractable Lighting Position (RLP)

Are you trying to avoid permanent lighting positions and yet still need a few lights for special events? The RLP offers a flexible option — an extra lighting position and power for a few additional lights when required. Accommodating up to four lights, the RLP provides the perfect lighting solution for multipurpose rooms, ballrooms, and even churches. And, when it's not needed, the RLP conveniently and easily withdraws into the ceiling — out of sight.

NEMA WALL PLATES

www.etcconnect.com/wallplates

- 1-, 2-, 3-, or 4-circuit plates
- Stage Pin, Twist-Lock, Edison, or TRUE1 connectors (others available)
- Industry standard back boxes

FLOOR POCKETS

www.etcconnect.com/floorpockets

- Up to six outlets – Stage Pin, Twist-Lock, Edison, TRUE1, or low-voltage connectors
- Choice of connector type
- Provisions for an integral barrier for low-voltage circuits
- Cast-iron covers with a non-skid tread pattern and cable notches
- Wall pockets available (up to six circuits)

RETRACTABLE LIGHTING POSITION (RLP)

www.etcconnect.com/RLP

- Two positions – stored and working
- Finger-operated latch with counter balance for ease of motion
- Up to four outlets – Stage Pin, Twist-Lock, Edison, or TRUE1 connectors
- Replace any one outlet with DMX connector
- Rated for 1000 pounds
- UL Listed
- Standard in white and black

LED fixtures by ETC

Guarding the *quality of light* is the driving principle behind ETC's LED innovations. We give lighting designers the tools to make their artistry — with the specific colors they demand, as well as precision color control with no compromising.

ETC's Selador® LED technology is the winner of LDI, PLASA, ABTT, PALME, *Live Design*, and WFX product awards. Compared to other LED fixtures that use just three or four colors, our Selador-based fixtures produce a broader, richer spectrum of whites and a more vivid, nearly limitless color palette. While low-quality RGB illumination casts people and objects in an unflattering light, Selador's unique seven-color system imparts natural, enhancing tones. *Beautiful light with exceptional output and energy savings.*

Give your stage, studio, or architectural space the LED lighting that can be trusted in every application — from key, front, fill, and side light to color washes and cyc lighting, interior or exterior.

Whether you choose our Selador Desire®, Selador Classic, or Source Four LED™ fixtures, you have the best LED technology available.

SELADOR X7 COLOR SYSTEM LED FIXTURES

Seven-color LEDs providing the most comprehensive color spectrum in an LED fixture
High brightness, intense-color light with low power consumption
Superior control electronics for smooth low-end dimming
IP 20 rated [Desire XT and XTI – IP66 rated]
100V to 240V 50/60Hz internal power supply
DMX in-and-thru
Rugged all-metal housing

LED lighting by ETC

Source Four LEDs

Source Four LED CYC adapter

Desire D22

Desire D40

Desire D40XT

Desire D40XTI

Desire D60

Desire Studio D40

Desire Studio D60

Selador Classic Lustr

Selador Classic Paletta

Selador Classic Vivid-R

Selador Classic Pearl

Fox Theatre

Oakland, California

Shuttered for over 40 years, the historic Fox Theatre has been renovated and restored to its former artistic splendor, with the added mission of going 'green.' ETC's Selador LED fixtures highlight the theater's vast spaces, high ceilings, and intricate decor, which include ornate Moorish motifs. Thanks to the flexibility of the x7 System, the Selador fixtures impart rich, bold color to the architectural details while transitioning through hues for further dramatic effect. As the audience enters, the Selador lighting gradually changes, enveloping the space. Lush, colorful lighting achieved — while saving on energy costs — with Selador LED technology.

Source Four LED™

The industry's favorite spotlight — in high-efficiency LED versions. ETC's award-winning Source Four LED fixtures combine ETC's exclusive Selador® LED color technology with Source Four® light quality. Source Four LEDs look, feel, and focus like Source Fours — producing a sharp, clean beam of focusable light or creating smooth washes. And for the power used, their light output is exceptional: between 30 and 50 lumens per watt, depending on the model.

Demand the best color. The Source Four LED Lustr+™ offers superior light quality, richness of color, and precision control. Like ETC's Desire Lustr+™ luminaire, the Source Four LED Lustr+™ employs the Selador x7 Color System™ for the most comprehensive palette.

The many colors of white. The new Source Four LED Studio HD™ white-light spotlight performs in high-definition broadcast, film, and video production where people (with varying flesh tones) need to look their best. The Studio HD combines exceptional light output with broad-spectrum variable white light (2700K-6500K), for truer color rendition on camera. It is ideal for key, bounce, smooth, or textured lighting. And like all Source Four LED and Desire® fixtures, the Studio HD has flicker-free options to prevent the side effects that can arise when using LEDs with high-speed and rolling-shutter cameras. More great whites: the Source Four LED Tungsten™ produces a warm, beautiful light at a 3000K color temperature; the Source Four LED Daylight™ replicates a natural, cool light at 5600K.

Introducing Source Four LED CYC adapter™

Double duty with one fixture. Attach the CYC adapter, and any Source Four LED becomes a superior tool for lighting cycloramas. Switch out the adapter, and a Source Four LED returns to use in any other position, on or off stage. Fewer Source Four LED CYC units are needed to cover a cyclorama because their light stretches so high and is so evenly distributed. Using the Selador x7 System, the Source Four LED CYC adds bold colors and drama to any cyclorama, and can be fine-tuned to accentuate or suppress hues in painted backdrops.

SOURCE FOUR LED

www.etcconnect.com/s4led

Source Four LED Lustr+

Source Four LED Daylight

Source Four LED Tungsten

Source Four LED Studio HD

- Selador x7 Color System™ for industry's best LED light
- Sharp, clean beam for Source Four-quality optics
- Up to nine fixtures can be linked via power in/thru connectors
- DMX512 in/thru via five-pin XLR connectors
- Multiple control options, including RGB, strobe, and console-free master/slave mode
- 15-bit virtual dimming engine for smooth fades and minimal color shift during dimming
- Settings and presets can be copied to multiple fixtures
- Adjustable PWM output (920-1500Hz and High 25K) for flicker-free, high-speed camera work
- Accepts all conventional Source Four accessories and lenses
- Stand-alone (on-board controls – no controller required)
- Can control other Source Four LED and ETC Desire fixtures
- Black (standard), white or silver (optional) or custom colors
- ETL Listed to UL1573; IP20 rated
- Blends beautifully alongside incandescent and other sources
- Source Four LED Lustr+ has Selador x7 Color System array for bold colors, subtle tints
- Source Four LED Tungsten 3000K array emulates warm-white light/tungsten look
- Source Four LED Daylight 5600K array emulates natural daylight look
- Source Four LED Studio HD broad-spectrum, variable white light (2700K-6500K) for truer color rendition on camera

SOURCE FOUR LED CYC ADAPTER

www.etcconnect.com/s4ledcyc

- Lights subtly-painted drops with Selador x7 color
- 2:1 luminaire spacing (for every 1ft back, there can be 2ft between luminaires)
- Smooth, homogenized distribution
- Highly tuned optics (not just folded tin)
- Works within the footprint of traditional incandescent cyc lights
- Rugged die-cast aluminum construction
- Heat- and impact-resistant polycarbonate optics
- Designed for use with all Source Four LED fixtures

Desire® x7 LED Luminaires

Winner of five international product awards: ETC's Selador® Desire high-performance LED luminaires. With Desires, productions and facilities have the best professional tools to achieve brilliant, high-quality and energy-saving lighting — indoors and outdoors. The Desire line offers versatility and variety: the compact-but-bright D22 with 22 LED emitters; the brighter D40 with 40 emitters, the IP66-rated D40XT and D40XTI for outdoor use; and the super-bright D60 with 60 emitters. The luminaires feature Selador's x7 Color System™, using up to seven colors of emitters to provide the widest color gamut possible from LED fixtures. The x7 light renders scenery, textiles, and people beautifully and realistically. And, every Desire fixture is factory calibrated to ensure that fixtures added to existing inventory match as closely as possible.

The Desire user interface helps you quickly configure the luminaire to your specific task. Tailor the light to your needs by choosing specific profile and performance settings. Desire luminaires can be controlled from a DMX controller — like an ETC lighting console — or right on the back of the fixture via stand- alone control functions.

Great color flexibility. Desire's DMX profile selection (RGB, HSI, HSIC, Direct, and Studio) lets you choose the control personality that is best for your programming situation. The Red Shift option allows Desire fixtures to mimic the natural color shift in a tungsten fade. Adding Plus-7 settings to the more intuitive control modes, like HSI and RGB, gives precision control over individual LED colors. You can quickly modify the color to get the exact shade you want.

OVERALL FEATURES

- Multiple arrays
- 50,000-hour LED life
- DMX in/thru connections for easy setup
- Easy control with multiple modes and fixture settings
- Round, oblong, and linear beam-diffusers available

DESIRE

www.etcconnect.com/desire

Desire D22 Lustr+™

Also available in Studio Daylight™, Studio Tungsten™, and Studio HD™ arrays

DESIRE D22

22 emitters

Compact 8" footprint, less than seven pounds

Easy-access slots for secondary lenses and accessories

Desire D40 Lustr+

Also available in Vivid™, Fire™, Ice™, Studio Daylight, Studio Tungsten, and Studio HD arrays

DESIRE D40

40 emitters

UL 1573-rated for stage and studio use

Power and DMX in/thru connections for easy setup

Uses standard 7.5-inch PAR accessories

DESIRE D40XT

40 emitters

IP66-rated for exterior, wet-location use

Power and DMX in/thru connections for easy setup

Secondary lenses available for multiple beam-spread options

Mounting accessories for temporary outdoor use

DESIRE D40XTI

40 emitters

For permanent installations

IP66-rated for interior, exterior, or wet-location use

ETL 1598-rated for general luminaire installation lighting

Trim ring allows safe access to accessories in the field

Secondary lenses available for multiple beam-spread options

Mounting accessories for pole- or wall-mounts

Desire D60 Lustr+

Also available in Vivid, Fire, Ice, Studio Daylight, Studio Tungsten, and Studio HD arrays

DESIRE D60

60 emitters for brightest variant in Desire family

Power and DMX in/thru connections for easy setup

Easy-access slots for secondary lenses and accessories

Secondary lenses available for multiple beam-spread options

Desire Studio LED™ Luminaires

The right *white* light. The Selador Desire® Studio LED luminaires are ETC's white-light fixtures designed expressly for broadcast, film, video, and stage use. The right *bright* light: The Studio line comprises the D22 with 22 emitters; the D40 series and the IP66 outdoor-rated D40XT and XTI, with an array of 40 Luxeon® Rebel™ emitters; and the D60, with a more powerful 60-emitter array.

The breakthrough Studio HD™ was developed in consultation with TV-lighting experts. It starts with warm-white and cool-white LEDs to provide continuously variable color temperatures. Five colors from the Selador x7 Color System™ are added to the array. Together they produce high-quality white light for the most demanding professional lighting situations. The Studio HD gives the precise color of white light the instant it's needed. Intensity, color temperature, and green levels can be adjusted and saved into a lighting console or right at the fixture at on-location shoots. Studio HD excels at illuminating people — creating a natural looking, photogenic light that can be fine-tuned to skin tones, flattering and complementing all pigmentations. So the talent looks great, time after time.

When high-efficiency punch is more important, the Desire® range offers the Studio Tungsten™ and the Studio Daylight™ fixtures. Both were developed in response to demand by international lighting pros for specific color temperature, non-variable, high-intensity LED light sources. The Studio Tungsten uses LEDs designed to produce white light at 3000 Kelvin. The Studio Daylight is perfect for designers working in video, film or architectural situations requiring 5600 Kelvin.

Desire Studio D40 HD

Desire Studio D40 Tungsten

Desire Studio D40 Daylight

Desire Studio D60 HD

Desire Studio D60 Tungsten

Desire Studio D60 Daylight

DESIRE D22 STUDIO, D40 STUDIO, AND D60 STUDIO

White light for high-brightness applications

D22 Studio has 22 Luxeon® Rebel™ LED-emitter array

D40 Studio has 40 Luxeon Rebel LED-emitter array

D60 Studio has 60 Luxeon Rebel LED-emitter array

D22, D40, and D60 Studio available in three white-light configurations: Studio Daylight, Studio Tungsten, Studio HD

All D40 Studios available in IP66-rated XT and XTI versions for exterior, all-weather use

Round field diffuser lenses and oblong diffuser lenses available

User-friendly control-interface with multiple modes and fixture settings for console-free operation (no UI on XTI)

Full RDM capability

Up to ten fixtures may be linked via power in/thru connectors per 15A circuit

'Studio' control mode allows stand-alone operation with no DMX console required

DESIRE STUDIO HD

In D22, D40 and D60 configurations

Color-temperature- and tint-variable white light with added x7 spectrum

High-definition white light (great in person and on camera)

DESIRE STUDIO TUNGSTEN

In D22, D40 and D60 configurations

For low-power, high-intensity, tungsten-like warmth

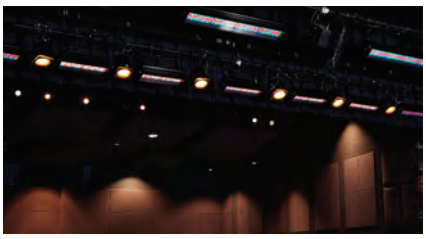
3,000K (CRI-90) tungsten LED emitters

DESIRE STUDIO DAYLIGHT

In D22, D40 and D60 configurations

High-volume single-color 5600K light output

Replaces high-wattage HMIs



Lustr® LED fixtures

Winner of a WFX Product of the Year Award. Lustr is the all-around theater performer in the Selador® Classic series. Think watercolors: warm or cool white light slowly evolving into soft tints and then into pure saturated color. In Lustr, the Selador x7 Color System™ is optimized to produce theatrical-quality whites and tints that render skin tones naturally (indispensable for HD TV and film production) — while still creating the deep colors that ETC LEDs are known for.

In key, fill and front-light applications, the Lustr provides a soft beam of light that blends beautifully with the ETC Source Four® fixtures in your lighting system. Lustr's subtle tinting and strong color capability are the perfect solution for lighting scenery and creating powerful color washes.

Finally — bright light, in color or in white. Broadcast studios, theaters, and houses of worship will love the total-package performance of Lustr.

Paletta® LED fixtures

A riot of color. ETC's value LED fixture, Paletta is a jewel-tone superstar in the Selador Classic series, providing a broad color palette for stage washes, cycs and scenery lighting. Paletta offers theater- and broadcast-lighting designers an amazing assortment of rich, full colors in a low-profile source — a great color-changing companion to your ETC Source Four fixtures. Paletta also boasts the lowest energy consumption of the Selador family, affording you the green-minded energy savings and longevity of LED technology.

Use the powerful color-handling functionality of an ETC lighting control system to easily match Paletta's light to your favorites gels from any major manufacturer or adjust the x7 System to create your own signature palettes.

SELADOR CLASSIC LUSTR

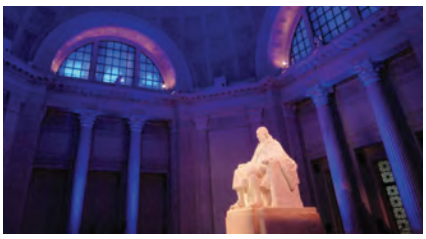
www.etcconnect.com/lustr

- x7 Color System optimized for white light and tinted colors
- Designed for medium-throw distances where soft blending is important: studio key, fill and wash lighting; tinted stage washes
- Frosted optics for a soft beam pattern
- High-efficiency 2.5W Luxeon® Rebel™ emitters for long life and maximum energy savings
- Superior control electronics for smooth low-end dimming
- IP 20 rated
- 100V to 240V 50/60 Hz internal power supply
- DMX in-and-thru via 5-pin XLR connectors
- Rugged all-metal extruded housing
- Black and optional anodized colors
- 11", 21", 42", and 63" unit lengths
- Double yoke option stacks two units for space-efficient coverage
- ETL and CE Listed

SELADOR CLASSIC PALETTA

www.etcconnect.com/paletta

- x7 Color System optimized for a wide gamut of deep, rich colors
- Designed for medium-throw distances: cycs and scenery, architectural wall washes, broad stage washes
- Blended for uniformity and a soft beam pattern
- High-efficiency 2.5W Luxeon Rebel emitters for long life and maximum energy savings
- Superior control electronics for smooth low-end dimming
- Rugged all-metal extruded housing
- IP 20 rated
- 100V to 240V 50/60 Hz internal power supply
- DMX in-and-thru via 5-pin XLR connectors
- Black and optional anodized colors
- Narrow 5" profile fits in small spaces
- 11", 21", 42", and 63" unit lengths
- Double yoke option stacks two units for space-efficient coverage
- ETL and CE Listed



Vivid-R™ LED fixtures

Shade your eyes. Vivid-R is the color and intensity powerhouse in the Selador® Classic series. Go bold with Vivid-R — vibrant LED lighting when you need color punch. These fixtures are designed to give you the highest center-beam brightness and robust color. You get the brilliant color that you expect from Selador x7 Color System LEDs, with the beam qualities of a PAR fixture.

Vivid-R can be used wherever you need an extra kick of strong, deep color. And, with the low-heat output of the Selador series, you can have your colors blazing, without overheating your talent. Bright, dramatic and energy-efficient, Vivid-R is a great fit for large-scale events, broadcast, and installations.

Pearl™ LED fixture

Designed for broadcast and stage needs, the Selador Pearl features a carefully chosen mix of warm white (3200K) and cool white (5700K) LEDs that can be adjusted to provide just the right color temperature of white light. Pearl uses the same lens system as all Selador fixtures, giving the user incredible control over field size — from a narrow, soft-edge 17° spot — to an extremely wide 80° field of light. Going green? Limited power? Pearl produces 3460 lumens from less than 125 watts.

SELADOR CLASSIC VIVID-R

www.etcconnect.com/vivid

- x7 Color System optimized for a range of deep, high-intensity colors
- Designed for long-throw applications: large cycs, stage washes, sidelight and box-boom washes, high-impact architectural washes
- Clear optics for a direct and strong PAR-like beam quality
- Superior control electronics for smooth low-end dimming
- IP 20 rated
- 100V to 240V 50/60 Hz internal power supply
- DMX in-and-thru via 5-pin XLR connectors
- Black and optional anodized colors
- Double yoke option stacks two units for space-efficient coverage
- ETL and CE listed
- Color-range-specific Fire™ and Ice™ fixtures available
- 11", 21", 42", and 63" unit lengths

SELADOR CLASSIC PEARL

www.etcconnect.com/pearl

- Beam angle 8° and field angle 17°
- Ultra-quiet cooling
- 100V to 240V 50/60 Hz internal power supply
- DMX in and thru via 5-pin XLR connectors
- IP 20 rated
- ETL and CE listed
- 11", 21", 42", and 63" unit lengths

ETC Source Four® fixtures

ETC's Source Four-brand lighting fixtures are the choice of entertainment-lighting professionals worldwide. No other lights provide such lighting punch while keeping heat generation to a minimum. ETC pioneered green lighting by replacing inefficient 1000W fixtures with our energy-saving 575W and 750W HPL-powered Source Four fixtures. And Source Four optics are unsurpassed in imaging excellence. These are the world's best lights – with more than 3 million units shining in venues across the globe – outperforming and outlasting all others.

An evolution of brilliance…

1992 The Source Four ellipsoidal spotlight debuts, stunning the lighting world and garnering the LDI Best Entertainment Lighting Product of the Year.

1996 The Source Four jr takes the TCI Lighting Product of the Year award.

1998 The Source Four Zoom wins the LDI Best Entertainment Lighting Product.

1999 The genre-bending Source Four PARNel® receives the ESTA Dealer's Choice Award.

2004 ETC's Source Four Revolution® moving light wins EDDY and ABTT Lighting Product of the Year Awards.

2006 ETC adds field angles — the 14°, 70°, and 90° — to the Source Four family, plus the EDLT lens-tube option for stunning contrast and crispness.

2008 ETC goes even greener with introduction of Source Four 70W HID in its architectural line.

2011 ETC debuts the long-awaited Source Four Fresnel™ (which wins the PLASA Members Choice Award) and the Source Four XT®, for the outdoors [see Architectural chapter].

2012 ETC introduces the Source Four LED™ spotlight, which sweeps the ABTT Lighting Product of the Year, the PLASA Award for Sustainability, the LDI Debuting Product of the Year, and the Live Design Lighting Product of the Year 2013.

2013 ETC introduces the ultra-compact Source Four Mini™ spotlight.

Source Four family

Source Four Mini
Source Four
Source Four jr
Source Four 14°
Source Four 70°
Source Four 90°
Source Four EDLT option
Source Four Zoom
Source Four jr Zoom
Source Four PAR EA
Source Four PAR MCM
Source Four PARNel
Source Four Fresnel
Source Four MultiPAR

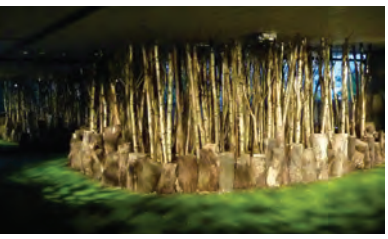
Oliver!

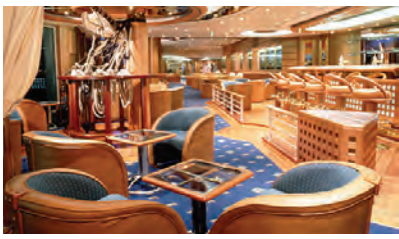
Theatre Royal, Drury Lane, West End, London, Great Britain

The hit revival of the musical *Oliver!*, starring Rowan Atkinson, took London's West End by storm, racking up record-setting ticket sales. Lighting designer Paule Constable worked to evoke the magic and moods of Charles Dickens' timeless story, creating stunning visual displays. Constable's elaborate light plot included more than 150 conventional ETC Source Four® fixtures and 50 Source Four Revolution® moving lights to achieve many of its spectacular effects. And to control this elaborate mixed-media rig, Constable chose ETC's award-winning Eos® console.

Photo © Michael Le Poer Trench

source four





Introducing Source Four Mini™

At only nine inches long and weighing just over a pound and a half, the Mini is the tiniest Source Four ever, but it lives up to its family name for projection, punch, and efficacy. It may be cute, but the Mini is a serious lighting tool. Its 50-watt tungsten/halogen MR16 lamp is brighter than you'd expect from an instrument of this size. The Mini also performs like a Source Four — with crisp optics; crystal-clear image projection; a bright, even field; and user-friendly operation.

The Mini's compact size means that even more installations can have Source Four functionality. Sometimes you need a spotlight a third the size of a normal fixture to highlight a special detail or prop on a set — to do an important bit of fill or accent lighting in a particular scene. The Mini is also a perfect fit for small-scale installations, like light labs, children's theaters or puppet theaters, as well as venues like museums, stores, and restaurants that need an extremely low-profile fixture that can easily blend into an architectural or artistic design.

The Mini is available in four field-angles: 19°, 26°, 36° and 50°, with a 2.5-inch diameter lens. It comes in a portable version with a miniature C-clamp, a canopy-mount design with an integral transformer, or a track-mounted design. All Mini models accept a range of conventional-spotlight accessories and include an E-sized pattern holder and a gel-media frame. And beyond standard black, white, and silver, the Mini is available in custom colors to blend into or complement any surrounding design.

SOURCE FOUR MINI

www.etcconnect.com/mini

- 19°, 26°, 36° and 50° field angles
- 9" long, 2.5" diameter
- 50W tungsten/halogen MR16 lamp with 5,000-hour average life
- Portable, canopy-mount and track-mount versions
- E-size pattern holder
- Gel media frame
- Rotating barrel ± 175°
- Three-plane stainless-steel shutter blade assembly
- Tool-free lamp replacement
- Insulated rear handle
- Rugged die-cast aluminum construction
- Black, white, silver or custom colors available

MINI™ MOUNTING OPTIONS

CANOPY-MOUNT

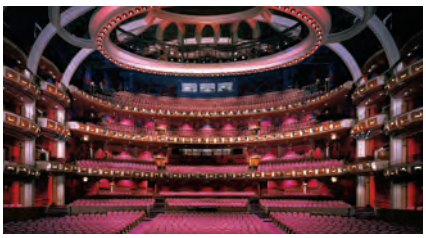
- 4.5 x 1.5" color-matched canopy
- Canopy-mounting hardware for 4" ceiling junction box included
- 12V transformer in canopy for hardwired (120V or 230/240V) input

PORTABLE

- Yoke-mounted 12V transformer in color-matched case
- Miniature C-clamp included
- 3' power cable and choice of Edison, UK or EU plug

TRACK-MOUNT

- ETL-Listed and compatible with EUTRAC-brand track
- Factory-installed, integral 12V transformer in color-matched (black or white) adapter



Source Four®

The fixture that changed the lighting industry. Source Four combines the energy-saving power of the patented HPL lamp, with a dichroic reflector and optical-quality lenses, for the coolest beam on the market. That means your patterns and shutters last longer and your performance space stays cooler.

No other light offers such optical brilliance. Source Four's revolutionary technology gives you a clean white beam for unequaled imaging, crisp pattern projection, and a bright, even field. It's the favorite fixture of lighting designers everywhere.

Rated for up to 750 watts, the Source Four punches through saturated colors and offers great long-throw performance. Ultra-efficient for more lumens per watt: at 575 watts, the Source Four literally outshines 1000W ellipsoidals. And at 750 watts—well, no point comparing—there are no other fixtures in its class.

Venues and shows across the United States use their Source Fours in tandem with ETC's Dimmer Doubling™ technology to gain more dimming circuits and lighting flexibility. With Dimmer Doubling one circuit equals two separate dimmer channels, which in turn allows you to power up twice as many Source Fours.

SOURCE FOUR

www.etcconnect.com/s4

- 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70°, and 90° field angles
- Rated up to 750W
- Super-efficient HPL lamp
- Faceted dichroic reflector removes 90% of IR heat from beam
- Interchangeable lens tubes
- Rotating barrel ± 25°
- Three-plane stainless-steel shutterblade assembly
- Tool-free lamp adjustment
- Insulated rear handle
- Rugged die-cast aluminum construction
- EDLT lens option in 19°, 26°, 36°, and 50° angles
- Custom colors available
- Supports ETC Dimmer Doubling

SOURCE FOUR JR

www.etcconnect.com/s4jr

- 26°, 36°, and 50° fixed-field angles
- Rated up to 575W
- Super-efficient HPL lamp
- Interchangeable lens assemblies
- Faceted dichroic reflector removes 90% of IR heat from beam
- Two-plane stainless-steel shutterblade assembly
- Tool-free lamp adjustment
- Rugged die-cast aluminum construction
- Custom colors available
- Supports ETC Dimmer Doubling

Source Four® 14º, 70º, 90º

More tools for your Source Four workbox! There's a Source Four field angle for every lighting throw distance. ETC's Source Four 14º gives you a powerful alternative for front-of-house positions where a 10º field would be too small or 19º too big. Ideal for performance venues and churches where 30' to 70' throws are encountered, the 14º makes a great retrofit fixture for lighting professionals who miss 8x13 ellipsoidals.

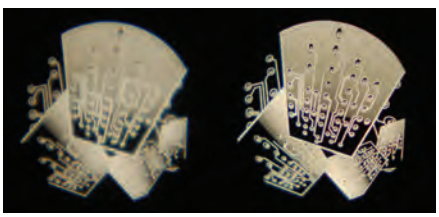
We have you covered – with the brightest short-throw fixtures available! The Source Four 70º and 90º fixtures give you ultra-wide spotlighting for positions with low trim heights, like low ceilings or back-of-set specials. Choose the 70º or 90º when you need more controlled light coverage than a wide-angle wash, plus powerful pattern projection from a very short throw distance.

Source Four EDLT

When your lighting situation requires the most precise optics for projecting gobo images or logos, the Source Four Enhanced Definition Lens Tube (EDLT) option is an invaluable addition to your Source Four inventory. The EDLT attaches easily to any new or existing Source Four fixture body and is available in 19º, 26º, 36º and 50º field angles. Without compromising on light output, EDLT provides heightened sharpness and stunning contrast to images when the Source Four is used as a pattern projector. With the innovative EDLT option on your Source Four, the best spotlight available gets even better.

Seeing is believing: A side-by-side comparison of gobos projected with and without the EDLT demonstrates the clear difference.

Standard Source Four



Source Four with EDLT

SOURCE FOUR 14°

www.etcconnect.com/s4

- 14° field angle for intermediate-throw applications
- Precision dual aspheric glass lenses with high-quality coatings
- Heightened crispness and contrast
- Rated up to 750W
- All standard Source Four features

SOURCE FOUR 70° AND 90°

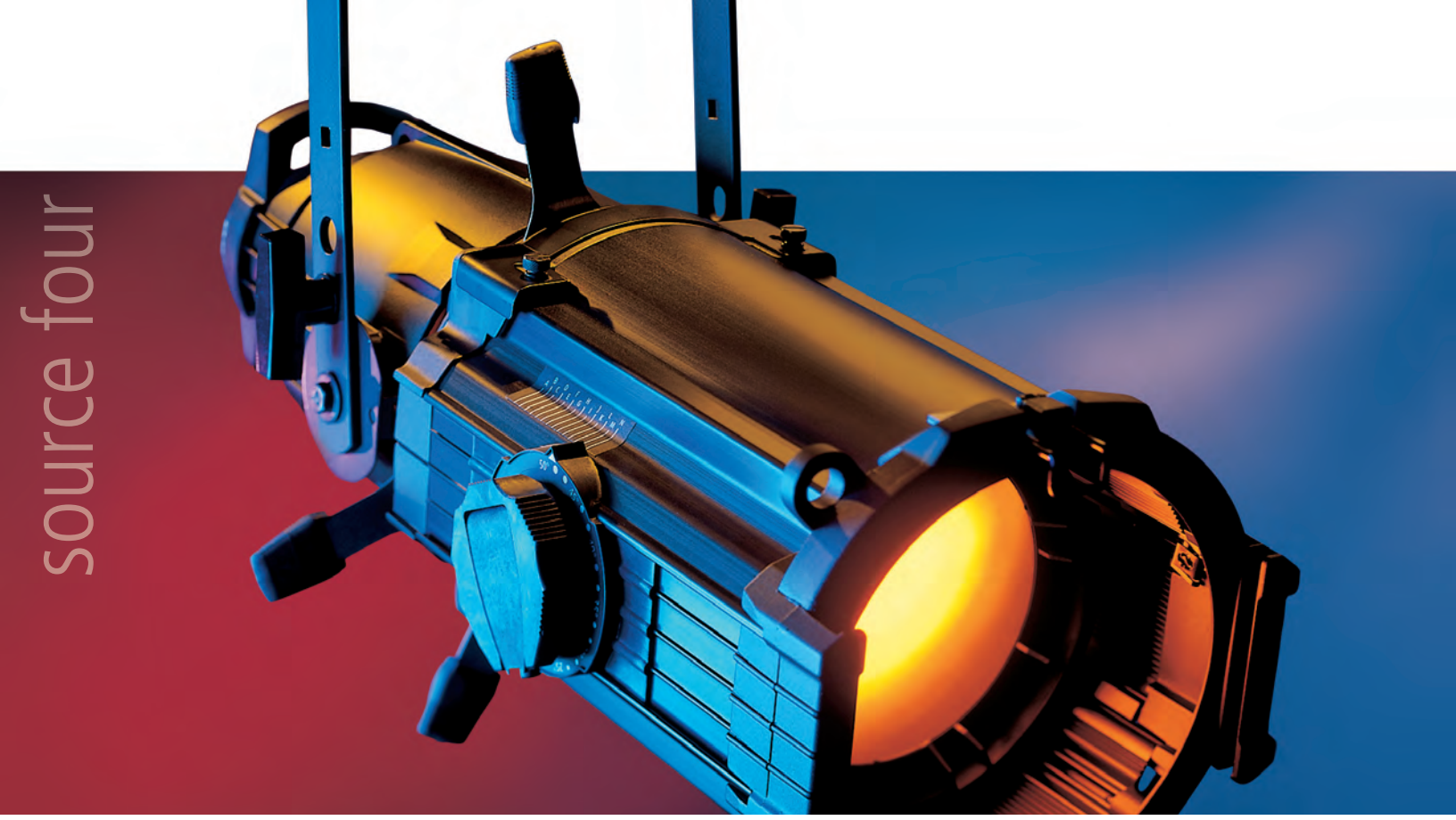
www.etcconnect.com/s4

- 70° and 90° field angle for short-throw applications
- Precision glass aspheric lenses with high-quality coatings
- Heightened crispness and contrast
- Rated up to 750W
- All standard Source Four features

SOURCE FOUR EDLT OPTION

www.etcconnect.com/edlt

- For 19°, 26°, 36° and 50° field angles
- Heightened sharpness and contrast
- Increased output
- Advanced, dual aspheric lenses with anti-reflective coatings
- Fits all new and existing Source Four fixture bodies



Source Four Zoom™

40% brighter than others' zooms! You don't have to compromise on brightness when you need the versatility of a variable-focus ellipsoidal spotlight. This is the zoom for the most discerning international lighting professionals. Just one fixture to achieve a variety of field angles, with all the advantages of the acclaimed fixed-focus Source Four: bright even field (even brighter than the fixed-focus units!), cool beam, and amazing efficiency. The dichroic mirror means shutters and accessories stay cool, and drop-in accessories are interchangeable with fixed-focus Source Fours. Rated up to 750W, Source Four Zoom gives you Source Four's crisp optics for excellent imaging and field quality, with added field-angle flexibility.

And ETC's patented one-handed zoom operation makes adjustments quick, simple and safe. Technicians can focus with one hand and hold the ladder with the other. And the unique lens-tube door provides quick and easy access when you want to clean the lens assembly (tool-free!).

Source Four jr Zoom™

If you're looking for the field-angle versatility of a zoom ellipsoidal with the economy and compact design of a smaller fixture, you're looking for the convenient Source Four jr Zoom. School stages, houses of worship, black-box theaters, and budget-minded productions will find the jr Zoom to be a great solution for their smaller-scale or short-throw lighting needs. There's no compromising on quality either – Source Four jr Zoom boasts ETC's standard rugged fixture construction and performance.

SOURCE FOUR ZOOM

www.etcconnect.com/s4zoom

- 15-30° and 25-50° beam spreads available
- Rated up to 750W
- Super-efficient HPL lamp
- Faceted dichroic reflector removes 90% of IR heat from beam
- One-handed zoom operation
- Field-angle and focus scale markings
- Rotating barrel ± 25°
- Three-plane stainless-steel shutterblade assembly
- Tool-free lamp adjustment
- Easy-access lens cleaning
- Insulated rear handle
- Rugged die-cast and extruded-aluminum construction
- Supports ETC Dimmer Doubling™

SOURCE FOUR JR ZOOM

www.etcconnect.com/s4jrzoom

- 25-50° beam spread
- Rated up to 575W
- Super-efficient HPL lamp
- Faceted dichroic reflector removes 90% of IR heat from beam
- Two-plane stainless-steel shutterblade assembly
- Tool-free lamp adjustment
- Rugged die-cast aluminum construction
- Custom colors available
- Supports ETC Dimmer Doubling

source four

Source Four PAR™ EA and MCM

Elegant, compact, efficient and flexible—this is no ordinary PAR can. ETC's Source Four PAR goes beyond with its rugged die-cast aluminum construction and acclaimed Source Four lighting technology.

Changing beam angles is easy: Source Four PAR comes with a set of four snap-in lenses that mount in a cool, rotating ring. That also means no more reaching into a hot can with cracked porcelain sockets. And when you need a new lamp, just use your stock of Source Four HPLs (no need to carry a large inventory of expensive PAR64 lamps).

Source Four PAR's compact design means more units can be mounted on a pipe or fit into a truck. Combined with reductions in power and cable requirements, the Source Four PAR is perfect for touring. The fixture is available in two versions: EA (Enhanced Aluminum) and MCM (Metal Cold Mirror) versions. EA is a perfect PAR choice for 'normal' applications, but when your space requires the coolest performance environment, choose MCM, engineered with a cool beam as top priority.

Source Four PARNel®

With the PARNel, ETC introduced a new category of fixture to the lighting world. Featuring the patented wave lens design and easy focusing knob, the PARNel lets you quickly access a range of 25 to 45 degrees—a smooth, soft, symmetrical field that you can spot or flood like a Fresnel, but do even more with. ETC went beyond mere imitation and created a fixture with Fresnel functionality and the awesome performance of a Source Four PAR. Awarded the ESTA's Dealer's Choice Award for Equipment, the PARNel has taken its place on professional lighting rigs worldwide.

SOURCE FOUR PAR EA AND MCM

www.etcconnect.com/s4par

SOURCE FOUR PAR EA

Rated up to 750W

EA (Enhanced Aluminum) reflector

Super-efficient HPL lamp

Interchangeable lenses
(VNSP, NSP, MFL, WFL – standard; XWFL – optional)

Die-cast faceted reflector

Die-cast aluminum construction

Custom colors available

Supports ETC Dimmer Doubling™

SOURCE FOUR PAR MCM

Rated up to 575W

MCM (Metal Cold Mirror) reflector for cool beam performance

Super-efficient HPL lamp

Interchangeable lenses
(VNSP, NSP, MFL, WFL – standard; XWFL – optional)

Die-cast faceted reflector

Die-cast aluminum construction

Custom colors available

Supports ETC Dimmer Doubling

SOURCE FOUR PARNEL

www.etcconnect.com/s4parnel

Rated up to 750W

Enhanced Aluminum Reflector

Super-efficient HPL lamp

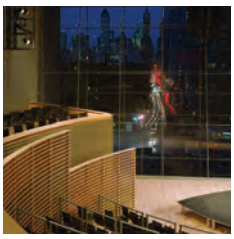
25°-45° variable field focus

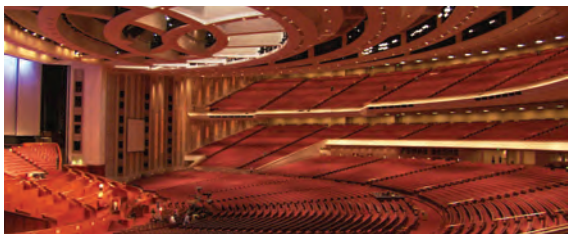
Easy spot-to-flood adjustment knob

Die-cast faceted reflector

Die-cast aluminum construction

Supports ETC Dimmer Doubling





Source Four Fresnel™

A Fresnel that's a Source Four®! Winner of the PLASA Member's Choice Product Award, ETC's Source Four Fresnel gives you the soft-focus lighting you love, with Source Four quality and efficiency. Lighting designers prize the controlled blending washlight and soft beam you can only get from a barn-doored Fresnel. Our fixture combines the classic Fresnel optical system with the HPL lamp technology that makes Source Four fixtures the professional choice. And like all Source Fours, this Fresnel is energy-saving: the 750W unit produces the same light output as others' 1000W Fresnels. Choose lamp wattage to suit your application and energy requirements—from 375W to 575W to 750W.

Our innovative socket and access door let you change out the lamp from underneath the fixture—without breaking focus—saving time and trouble. ETC makes it simple to adjust the fixture from spot to flood, with a full-sized zoom knob for better grip. Replace your old Fresnels with ones built to last: Like all Source Fours, the ETC Fresnel is made of rugged die-cast aluminum.

Source Four MultiPAR® striplight

We applied the award-winning optics of our Source Four PAR to a time-honored theatrical workhorse and made it into a lighting thoroughbred. Lamped with the HPL, this is a powerful striplight. The Source Four MultiPAR in 3-, 4-, or 12-cell lengths offers excellent light distribution, energy savings, and ETC's quality construction. The design capitalizes on the thermal management of the PAR reflector while still allowing easy access to the lamp without breaking focus. We made innovations we wanted to see in a striplight, including Source Four energy efficiency and light output, a beautiful field, and the flexibility to change from three to four circuits (and vice versa) for the MultiPAR-12.

SOURCE FOUR FRESNEL

www.etcconnect.com/s4fresnel

- 7”/175mm aperture
- Zoom range: 9°-52° beam angle; 20°-65° field angle
- Barn-door beam-shaping
- Rated up to 750W
- 100V-240V, 50/60Hz
- Super-efficient HPL lamp (same as all Source Fours, for common inventory)
- Quick eXchange socket enables easy lamp changes
- Full-sized zoom-adjustment knob
- Sliding yoke mount for variable balance point
- Rugged die-cast aluminum construction
- Supports ETC Dimmer Doubling™
- UL and cUL Listed

SOURCE FOUR MULTIPAR

www.etcconnect.com/s4multipar

- 3-cell, 4-cell, and 12-cell versions
- Rated up to 750W
- Enhanced Aluminum (EA) reflector
- Super-efficient HPL lamp
- Focus-free lamp mounting
- Interchangeable lenses (VNSP, NSP, MFL, WFL – standard; XWFL – optional)
- Die-cast faceted reflector with integral heat-sink fins
- Extruded and die-cast aluminum construction
- Tool-free lamp replacement
- Hanging brackets or floor trunnions optional

Unison – Complete Control

Building on decades of lighting innovation, ETC brings you the most comprehensive architectural control systems on the market. Lighting designers and specifiers swear by ETC products, used in thousands of venues around the globe, including theme parks, conference centers, casinos, restaurants, retail stores, museums, schools, theaters, and houses of worship.

ETC drew on its history of expertise to expand and update the Unison control line. These innovative offerings—including Paradigm®, SmartLink®, and Mosaic®—were developed with the same dedication to quality as ETC's award-winning consoles, fixtures, and dimming.

As a pioneer in the development of open standards in networking, ETC believes that all of your lighting control system's components should be interoperable. Unison draws on innovative core technologies for truly 21st-century lighting functionality and building control: LinkConnect (freedom to wire control stations however needed), NetConnect (data plus power using Power over Ethernet and no external power supplies), and MeshConnect (wireless connectivity for portable touchscreen controls).

And of course, Unison systems—like all ETC products—are backed by ETC's industry-leading service promise. ETC technical support is a phone call away all day, every day, so your questions or concerns can be handled right now.

Unison Paradigm

LightDesigner software

ControlDesigner software

Wall-Mount Touchscreen

Portable Touchscreen

Handheld Touchscreen

Architectural Control Processor

Control Enclosures

Dimming Enclosures

Unison Power Control Modules

LinkConnect Station

Heritage Control Stations

Central Control Server

Unison Mosaic

Mosaic Tessera Panel Controller

Mosaic Show Controllers

Mosaic Remote Modules

Mosaic Show Controller X

Mosaic Designer Software

Mosaic LED Drivers

Mosaic Button Stations

Mosaic Ethernet Switches

Mosaic DMX/RDM Opto-Splitters

SmartLink

SmartLink Architectural Control Processor (ACP)

SmartLink Button Stations

SmartLink TimeClock

SmartPack Wall Mount with SmartLink
[see Smart Solutions, p. 22-23]

SmartSwitch with SmartLink
[see Smart Solutions, p. 26-27]

Source Four fixtures

Source Four HID

Source Four HID jr

Source Four HID Zoom

Source Four HID jr Zoom

Source Four HID PAR

Source Four HID PARNel

Source Four XT

Monona Terrace Community and Convention Center

Madison, Wisconsin

Making a city icon out of light. Madison, Wisconsin's Monona Terrace is a beacon across the lake, Illuminated outside and in with the help of ETC architectural systems. The Frank Lloyd Wright-designed building is a glowing centerpiece of the cityscape, employing an ETC Unison Paradigm® control system. Paradigm's time- and energy-management functionality let this LEED Silver EB facility make the most of incoming natural light. And changing the lighting configurations for complex daily conference events is fast and easy. Area by area, room by room, Paradigm creates the custom lighting levels and looks that make this building and 2,000 feet of shoreline memorable.

Unison Paradigm®

Dramatic lighting, dramatic efficiencies. A new paradigm for control. Designed as a new way of thinking about building control, ETC's visionary Unison Paradigm system goes where none has gone before—fully fusing architectural lighting-control advances with entertainment-lighting control technology. ETC brings our award-winning expertise in both areas together to give you the best of both worlds.

Paradigm delivers a new level of comprehensive control—sophisticated facility-lighting and building systems integration. And it does so with unprecedented flexibility and simplicity: a green-minded energy-management system that capitalizes on daylight-harvesting, occupancy sensing and time schedules for maximum electricity and budget savings, combined with dynamic effects that make a venue exciting. Plus the power to speak fluently to different devices from different manufacturers over the same control system.

The Unison Paradigm family includes powerful software, elegant touchscreens, wall stations, modular control electronics, dimming and control enclosures, and accessories to offer the most customizable and people-friendly control systems available.

PARADIGM LIGHTDESIGNER

www.etcconnect.com/lightdesigner

State-of-the-art software for lighting and building control systems. LightDesigner™ represents a true shift in how lighting control and dimming systems are programmed, freeing the design team to create effective lighting control scenarios, for day-to-day operations, special events, and special effects. LightDesigner works the way you want it to, with effective pre-programming and simulation capabilities that allow you to visualize and test out changes to the lighting design, as well as access powerful, real-time live control and live editing of your Unison® Paradigm Control System.

Green light. LightDesigner's EnergyManager suite of features helps you harness maximum energy savings by using daylight harvesting (DaylightManager), occupancy sensing (OccupancyManager), and time-based controls (TimeManager) simultaneously.

PARADIGM CONTROLDESIGNER

www.etcconnect.com/controldesigner

The face of the system—the look of your lighting controls. Companion to LightDesigner, ControlDesigner™ software gives you the tools to create the look of your Touchscreen pages and other user interfaces, pre-visualizing your control interface. Free for download from ETC's website www.etcconnect.com, ControlDesigner lets you choose from built-in graphics or build your own as you develop unique interfaces ahead of time and load them when you are ready.

ControlDesigner's DesignView function allows you to create and edit control pages using extensive design tools, ensuring that each page has the look and controls you need, when you need them. ControlView lets you visualize and test each screen and action before uploading the design to the Touchscreens.

WALL-MOUNT TOUCHSCREEN

www.etcconnect.com/touchscreens

Paradigm's elegant Touchscreens are customized to your interior design—while putting complete lighting and building control at your fingertips. Available in wall-mount, portable or handheld versions, all Touchscreens use high-resolution, widescreen, color liquid-crystal displays (LCD) that are bright and easy to read. Designed to your specifications with ControlDesigner™ software, the Touchscreen's intuitive graphics guide you through control options. Adapt your Touchscreen's look, choosing buttons, faders, animation, pop-up windows, transparent pages, and Secure-it Touch electronic Lock out.

The permanently-installed Unison Wall-Mount Paradigm Touchscreen™ with its DuraFrame design is built to withstand the busiest environments and is available in standard painted finishes (cream, ivory, gray, black and signal white), as well as custom paints or anodized finishes.

PORTABLE TOUCHSCREEN

www.etcconnect.com/touchscreens

Unison Paradigm Portable Touchscreens are rugged, portable control devices that can be moved wherever you have a wired connector station. The Portable's DuraShell aluminum frame acts as a workstand when open and a screen protector when closed. The Portable Touchscreen communicates to the system via a flexible LinkConnect cable, which also powers the device, for use during fast changeovers or wherever you need temporary control. And, the Portable loads just the controls you need, based on the location you plug it into—allowing you to stay focused on the task at hand, no matter how many rooms you have to work with.

HANDHELD TOUCHSCREEN

www.etcconnect.com/touchscreens

Unison Handheld Paradigm Touchscreen™ is an elegant portable control device that can be used wired or wirelessly. In wired mode, the Handheld Touchscreen communicates to the system via a flexible LinkConnect cable, which also powers the Handheld and attaches to the Portable LinkConnect jack, Access Point or Tabletop Dock, for use wherever you need control for long periods of time. Used wirelessly, the Handheld Touchscreen employs ETC's innovative MeshConnect wireless technology to communicate with the Paradigm's Tabletop Touchscreen Dock or Paradigm Access Point Accessories.

PARADIGM ARCHITECTURAL CONTROL PROCESSOR

www.etcconnect.com/paradigmACP

Built from the ground up with performance, reliability and ease of use in mind, the powerful Paradigm Architectural Control Processor module contains state-of-the-art electronics and is packed with input and output ports. Designed to keep the lights on in your facility—even in critical emergency situations—the Paradigm® processor uses solid-state components, with no fans, disk drives, or moving parts, for die-hard 24/7/365 operation.

Get connected. The Paradigm processor is the center of your lighting control infrastructure. The ACP allows full Ethernet network control using NetConnect, featuring ETC's Net3™, powered by ACN, and native networking ports. The Paradigm Architectural Control Processor gives you the integration options you need, including two fully configurable DMX512A ports, which can be set as inputs or outputs, a bi-directional RS-232 serial port, along with four dry-contact inputs and four relay outputs. Or, you can use your Internet browser to view and edit elements of the system using LightDesigner Access, Paradigm's built-in web interface.

UNISON ERn CONTROL ENCLOSURES

www.etcconnect.com/ERn

Mission-critical functionality and power. Ultimate convenience. Sophisticated buildings require sophisticated lighting control solutions. For large-scale, multifunction, multi-partitioned venues where the stakes for system reliability are high, ETC offers the most comprehensive architectural control available: Paradigm control in an ERn enclosure.

The Unison ERn Control Enclosure was designed to perform one important task: support all of the capabilities of the Paradigm Lighting Control System. With the ERn enclosure, you choose the features you need for your facility's unique lighting and building control: processing, station support, power options, and networking.

Convenient in size but a powerhouse in functionality, the ERn is available in two sizes — ERn2 and ERn4 — to meet the needs of your lighting and building-control system now and in the future. ERn is the center of a network infrastructure, with no need for external gear. The optional Ethernet Switch Module for ERn provides five ports for 10/100 networking with four ports supplying 802.13AF-compliant Power over Ethernet, making it the definition of a NetConnect system. And, like most infrastructure equipment, the ERn series is available in a 19" equipment-rack version.

UNISON DRd DIMMING ENCLOSURES

www.etcconnect.com/DRd

ETC's Unison DRd Series Enclosures are the workhorses behind the scenes, supporting a networkable Paradigm® processor and a variety of dimming, switching and option modules. These dimming enclosures are trusted for their reliability and versatility. Designed with long-term, round-the-clock operation in mind, Unison DRd's dimming, control, and station power components are now modular, making service and support easier than ever.

Scaled to the power you need. Unison DRd is available in 6- and 12-module enclosures for up to 24 dimmers and can be cross-bussed from the same main power input, combining enclosures for up to 48 dimmers from a single feed, while only needing one control processor for both enclosures. When it comes to fluorescent dimming, Unison DRd can handle it all: two- and three-wire dimming ballasts with standard modules, DALI Ballasts and 0-10V ballasts. And DRd doesn't stop at fluorescent control: we do reverse-phase dimming (trailing edge) for electronic low-voltage transformers, and a range of other loads.

UNISON POWER CONTROL MODULES

www.etcconnect.com/unisonmodules

Unison modules are hard at work in venues across the globe. They are available in voltages for every need: 120V, 230V, 240V and 277V. Designed specifically for use in Unison DRd Series enclosures, these modules are heavy-duty, high-grade commercial dimmers. Each module is UL-Listed for continuous duty at five, ten, 15 or 20 amp capacities. Universal modules are available for incandescent, magnetic low-voltage, two- and four-wire fluorescent, neon, cold-cathode, or switched loads, or in specialized modules, such as, three-wire fluorescent, relay, or constant current. Reverse-phase (trailing edge) dimming of electronic transformer loads is available with the electronic low-voltage dimming module series.

LINKCONNECT STATION POWER MODULES

www.etcconnect.com/linkconnect

The LinkConnect Paradigm Station Power Module™ series provides the power for all of your Unison Heritage™ and Paradigm stations. Based on Echelon's LonTalk® protocol with LinkPower, LinkConnect allows you to communicate over a two-wire, topology-free data bus — simplifying system wiring. And the LinkConnect Station Power Module sends power, along with communication, down the same pair of wires for up to 32 stations. When you need more stations or need to cover more distance, you can add Paradigm Repeater or Dual Repeater Station Power Modules to your system.

UNISON HERITAGE CONTROL STATIONS

www.etcconnect.com/heritagestations

ETC's Unison Heritage Control Stations are used in lighting systems worldwide, from smaller-scale venues like schools, restaurants and houses of worship to large-scale networked convention centers and theme parks. Elegant and clean-lined, Unison Heritage controls are designed to complement — not to compete with — the aesthetics of any interior environment, while being easy to install using LinkConnect.

The Unison Heritage series of button and button/fader control stations can be customized to suit any décor and application — available in a wide range of sizes, color and configurations. Heritage faceplates use our Fastener-Free attachment system and may also be made to order —from custom legends in the font and color you choose, to a unique look using materials you specify.

Maximum security. Prevent unauthorized use of your lighting control system in public spaces with Secure-It Keyswitch Stations. You specify combinations of buttons or faders with a local, momentary or maintained key-lock in a single-gang faceplate, or choose button stations with key-only access. Secure-It technologies provide you with multiple levels of control protection.

Not all system interaction involves people: a variety of Heritage interface stations (DMX in and out, network, AV serial, contact-closure, and more) are available when interaction with other building systems or peripheral equipment is required.

PARADIGM CENTRAL CONTROL SERVER (PCCS)

www.etcconnect.com/paradigm

The Paradigm Central Control Server™ scales up Paradigm systems to master the most complex lighting. By integrating a BACnet® communication system and incorporating exclusive new ETC Virtual Touchscreens, Paradigm Central Control Server achieves the most comprehensive building-wide control while also benefiting even single-processor installations. The PCCS thinks globally and acts locally, allowing internal subsystems to act independently, while one command center monitors the entire system — simultaneously logging, overriding, driving, and managing the components.

With Central Control Server, multiple Paradigm systems can be programmed independently of each other and consolidated into a single system. This provides essential systems-management for multi-venue theme parks, cruise ships, performing arts centers, casino and resort venues, museum complexes, and the like, where lighting operations can now subdivide from facilitywide control down to even one preset lighting scene.

Designed to interface with ASHRAE's BACnet IP, Paradigm Central Control Server synchronizes and stitches together separate systems. It is not merely triggered by BACnet, it bi-directionally listens, registers, and replies to event scheduling, ensuring that the system runs its events even if connection to BACnet is lost.

Paradigm Central Control Server's Virtual Touchscreen stations and large-format touchscreen integration provide customized control anywhere. A Virtual Touchscreen may be a touchscreen computer or a conventional computer with monitor and keyboard/mouse control. Configured by ETC's LightDesigner™ and ControlDesigner™ software, the interfaces are tailored to the needs of any application.

Mosaic® Show Control

Be memorable. Special effects are no longer just for the stage. Everyday life has become the staging ground for entertainment experiences. It is not enough to engineer a space or structure functionally. The art and wonder of interactive lighting, automation, audio and visual spectacle, kinetic-art displays, water effects, and more are captivating people's attention — differentiating a venue, creating a landmark, making a truly memorable event.

Unison Mosaic is the solution for merging disparate elements — show control, LEDs, moving lights, media effects, and more into one visionary work — seamlessly closing the distance between architectural and entertainment technology.

The Unison Mosaic Show Control System assembles the pieces you need, giving you the freedom to focus on creativity not technology. Mosaic provides state-of-the-art software and hardware tools. Easy to learn and use, Mosaic Designer Software™ provides the canvas for your artistic design, from conception through programming and execution. Mosaic Show Controllers™ (MSCs) are the ultra-compact hardware solution, running your shows reliably, with peace-of-mind precision. And the MSC's wide range of inputs and outputs include industry-standard network protocols to facilitate system integration as needed.

For retail, museum, and themed spaces, art installations and special events — *any* unique environment — Mosaic control is the solution.

MOSAIC TESSERA PANEL CONTROLLER (MTPC)

www.etcconnect.com/mtpc

Touch this. The ancient word for 'tile,' a 'tessera' is a part of a greater mosaic and an object of utility itself. The Unison Mosaic Tessera® Controller (MTPC) is both a part of a greater sophisticated networked system *and* a full standalone controller, in a compact interface. The versatile Tessera combines a sleek 4.3" touchscreen with a 512-channel DMX-Over-Ethernet Mosaic controller. Complex lighting shows using devices like moving lights, color-mixing LEDs, conventionals, and dimmers can all be controlled by Tessera. It also handles impromptu show control, accessories, automation, waterworks, and other non-lighting effects.

Each device supports onboard triggering over Ethernet. Additional channels and triggering interfaces are supported by optional MSC controllers and remote devices attached over an Ethernet network.

Tessera's integrated show-control capability is programmed and configured using Mosaic Designer™ software. With RealEngine functionality, Tessera ensures an accurate representation of your full show — whether in software simulation or played live to connected controllers. Tessera also employs LiveControl for live output of your Mosaic show file to Mosaic controllers and fixtures during simulation. With DesignerAccess, Tessera draws on an internal Web server with pages providing status, configuration information, remote monitoring, and remote show uploads. The QuickChange function allows show-data to be stored on a flash memory card, which can be conveniently transferred to another Tessera.

MOSAIC SHOW CONTROLLERS

www.etcconnect.com/mosaicshowcontrollers

Packed with power. These 'instant-on' compact devices run your sophisticated shows reliably and precisely, time after time. The Mosaic Show Controllers support DMX512 and DMX-Over-Ethernet protocols to control color-mixing fixtures, conventional dimmable fixtures, and automated lights. MSC1 offers 512 channels; MSC2 offers 1024 channels (or, 340 RGB color-mixing units); and for the ultimate compact performance, the MSC4 offers 2048 channels with the same solid-state package. You can choose to output DMX512 directly to your devices or send the data to your network using DMX-over-Ethernet protocols: streaming ACN, Philips KiNet™, Art-Net™, or Pathway XDMX™.

Each MSC has the same extensive range of external triggering interfaces, including Ethernet, RS232 Serial, MIDI, and digital inputs. The built-in real-time clock triggers precise timed events, including 'sunrise' and 'sunset' astronomical cues. Additional triggering interfaces are supported by Mosaic's optional RIO devices. [See RIOs, p. 76].

Expand your reach. The Mosaic Remote Input/Output Modules (RIOs) expand the advanced show-control capabilities of your system in interactive installations, allowing lighting and AV to respond instantly to the environment or viewer. As accessories to the Mosaic Show Controllers™ (MSCs and MTPC) and Mosaic Show Controller X (MSCX), all RIO devices employ familiar, simple, and reliable Ethernet-wiring topology with IEEE 802.3af Power-over-Ethernet (PoE).

RIO 8/0

When you need to accept discrete triggers from third-party equipment to complete your system, choose the RIO 8/0. Featuring eight configurable Tri-Mode inputs, the RIO 8/0 accepts almost any input from the necessary equipment: digital-active high, digital-active low, or contact closure, and an integrated, bi-directional serial port (RS232/RS485). Up to 100 RIO 8/0 devices can be used in one system.

RIO 4/4

When you need both input triggers and control over other devices in the same location, choose the RIO 4/4. Featuring relay outputs and configurable Tri-Mode inputs, as well as an integrated, bi-directional serial port (RS232/RS485), the RIO 4/4 allows you to integrate with almost any third-party device. Up to 100 RIO 4/4 devices can be used in one system.

RIO 0/8

When you need to issue commands to third-party devices (such as building-automation and alarm systems, effects controllers, and automata), rely on the RIO 0/8 with eight fully isolated relay outputs, as well as an integrated, bi-directional serial port (RS232/RS485). Up to 100 RIO 0/8 devices can be used in one system.

MOSAIC RIO AUDIO

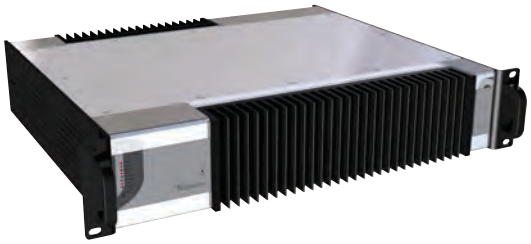
When you need connections for audio input or linear timecode (SMPTE and others) and MIDI timecode input and output, you need Mosaic RIO Audio (MRIO-A). MRIO-A modules can co-exist on a network as part of a distributed system: four supported for audio input; six supported for linear timecode and MIDI.

MOSAIC RIO DALI

When you need control for Digital Addressable Lighting Interface (DALI) ballasts or to accept triggers from other DALI-capable control systems, Mosaic RIO DALI offers connection to a single DALI loop (up to 64 devices) for individual and DALI group scene control. Up to 12 RIO DALI devices can be used with the MSC and MTPC Controllers, while up to 64 can be used with an MSCX — that's 4096 DALI devices. Ideal for commercial and architectural applications.

MOSAIC SHOW CONTROLLER X (MSCX)

www.etcconnect.com/MSCX



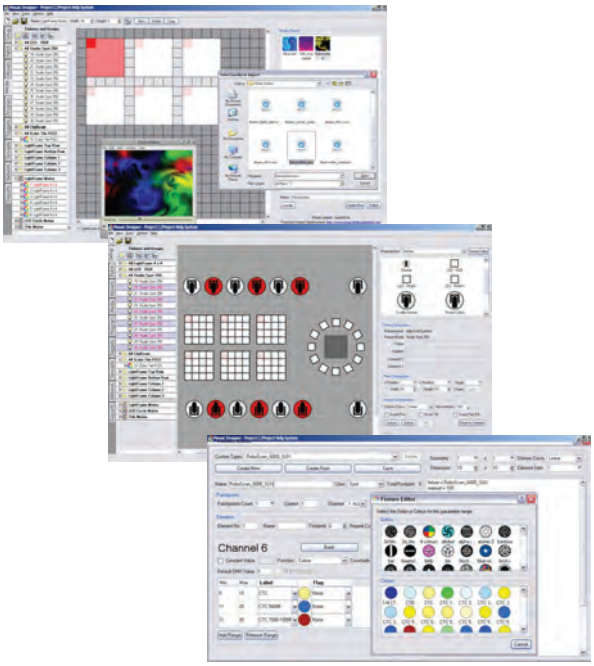
Extreme show control. The "X" in MSCX stands for that exceptional project that demands much more control power and integration. Designed to meet the needs of landmark projects, the MSCX is available in capacities ranging from 10,240 channels of DMX-over-Ethernet (20 universes) up to more than 100,000 channels (200 DMX universes, or, 34,000 RGB LEDs!) *from a single 19" equipment-rack-mounted unit.*

Like its siblings MSC1 and MSC2, the MSCX has an extensive range of external triggering interfaces, including Ethernet, RS232 Serial, and DMX input. A built-in real-time clock triggers precise timed events, including 'sunrise' and 'sunset' astronomical cues. As a DMX-over-Ethernet device, the MSCX also empowers you to send the data to your network using Ethernet protocols ETCNet2, Philips KiNet, Art-Net2, or Pathway XDMX, *simultaneously*. But unlike any other Mosaic device, the MSCX includes VideoConnect—digital video outputs using Firewire and DVI connections to master pixel mapping on video-based fixtures, as well as a Firewire digital-video input for live-video mapping in real time.

All Mosaic Show Controllers feature QuickChange, where invaluable show data is stored on a removable flash memory card, which can be transferred to another MSC if needed. The Mosaic RealEngine drives your Designer-created show flawlessly in real time. For LiveControl functionality or show upload, MSCX accepts Ethernet connections from the Mosaic Designer software running on your PC. MSCs also feature DesignerAccess, an internal Web server with active pages — providing status, configuration information, remote monitoring, and remote show uploads.

MOSAIC DESIGNER SOFTWARE

www.etcconnect.com/mosaicdesigner



Freedom to focus on creativity not technology. Unison Mosaic Designer Software provides the framework for creating your unique work of art. Everything you need is here: from importing project plans for system layout, to positioning lighting fixtures and other devices in the plan, to editing triggers and timelines, picking specific colors, programming special effects, mapping pixels to an array, playing back video clips, visualizing the results, and uploading your show.

With Mosaic — *you don't need a console.* You already have one — *inside* the Designer Software. From your Mac or PC, create an infinite mosaic of show looks with Designer's TimeSlice using visual, timeline-based blocks. Use ColorPick, Designer's powerful color selector to change intensity and hue. EasyFX brings out the artistry of your design with a comprehensive range of customizable special effects. And, Designer's PixelMap goes way beyond traditional lighting effects, allowing you to define a group of fixtures as a virtual screen and then play back static or video images on it. Use this as true video playback across an LED array or to generate dynamic and fluid color effects across large numbers of LEDs and other fixtures.

MOSAIC LED DRIVERS

www.etcconnect.com/mosaicleddrivers

Mosaic LED drivers can be used with any DMX controller for direct and efficient control of single-color LED fixtures. With options for both constant current and constant voltage, you can get the right tool to work with your power supply.

The Mosaic Constant Current LED Driver (LED-C) provides six channels of LED control for constant-current fixtures. The Mosaic Constant Voltage LED Driver (LED-V) provides six channels of LED control for constant-voltage fixtures. Each can be paired with a standard power supply to power both the LED driver and the connected fixtures.

The LED drivers offer one power supply input and DMX in and thru, creating six discrete outputs to LED fixtures. Constant-current modules offer a variety of outputs — 350mA, 500mA and 700mA — with inputs from 15 to 48Vdc. Constant-voltage modules run 12 to 24Vdc with a maximum channel output of 40W (180W total power). These compact drivers fit any installation. They feature manual and automated addressing, fixture test modes, standard DMX protocol, support RDM configuration, and are convection cooled.

These DIN-rail-mounted drivers are the perfect accessory for any Mosaic control system.

MOSAIC BUTTON STATIONS

www.etcconnect.com/mosaic

Mosaic Button Stations (BPS) interface with any Mosaic Controller (MSC, MSCX, and MTCP) over a standard Power-over-Ethernet network. With support for up to 100 stations in a single system, button stations can be placed remotely to trigger any system action or timeline. Simple addressing using a rotary switch is provided on the rear of the station, and Mosaic Designer software is used to assign button actions and LED indicator responses. With faceplates for North America and Europe, the button stations are available in finishes of white, cream, black, or black with an aluminum bezel, to complement your décor. Or, go your own way: Design your own look by choosing the clear acrylic version with a customizable insert.

MOSAIC ETHERNET SWITCHES

www.etcconnect.com/mosaic

The Mosaic Ethernet Switch (MSC-NET) allows for multiple Mosaic Controllers or accessories to be networked together. The MSC-NET offers five unmanaged Ethernet ports, with four ports also providing Power-over-Ethernet (PoE). The DIN-rail mounted switch is the perfect accessory for any Mosaic Show Control System.

MOSAIC DMX/RDM OPTO-SPLITTERS

www.etcconnect.com/mosaic

The Mosaic DMX/RDM Opto-Splitter (MSC-OPTO) distributes four outputs of a single DMX universe from a Mosaic control system to other devices. The DIN-rail mounted splitter also supports Remote Device Management (RDM) and is the perfect accessory for any Mosaic Control System.

SmartLink® control

Architectural lighting control for any budget! Plug-and-play — SmartLink architectural lighting control is ready to go, out of the box. Low installation cost. No programming or commissioning. No DMX wiring required. No software, computer or external devices necessary.

Smart savings. SmartLink's system functionality is free in ETC's SmartSwitch® or SmartPack® and is a low-cost option in Unison® systems. Recall fundamental lighting looks with SmartLink button stations, which allow simple access to presets and sequences. We also offer the functional and stylish SmartLink TimeClock, giving you access to all your presets and time-of-day control, from a single location. You choose what fits your location's aesthetics and needs.

SmartLink's two-wire, topology-free LinkConnect system gives you the freedom to put stations where needed, without worrying about wiring. SmartLink is a high-quality, low-cost solution for lighting control applications such as restaurants, retail stores, schools, houses of worship, and more.

SMARTLINK ARCHITECTURAL CONTROL PROCESSOR (ACP)

www.etcconnect.com/smartlinkACP

Designed exclusively for the Unison DRd enclosures, the SmartLink ACP provides smooth lighting fades for up to 48 channels. The SmartLink ACP features a QuickLoad SD card slot, which can be used to store the system data for later access, even while the system is in use. The ACP's Secure-It User Access control keeps data protected, using multiple levels of user access at the facepanel.

The ACP offers 64 presets and a sequence, and can support 16 SmartLink control stations when you add a LinkConnect Station Power Module. The SmartLink ACP also accepts a DMX512A input for control by other devices. The combination of DMX and LinkConnect allow you to Snapshot a lighting scene for use later as one of the system presets, by simply pressing and holding a button.

SMARTLINK HERITAGE BUTTON STATIONS

www.etcconnect.com/smartlinkstations

Light touch. A lot of power. Available in convenient five- and ten-button configurations, SmartLink stations provide direct access to lighting presets and sequences. With Plug-and-Play addressing, you don't need to program the stations, but you can effortlessly change which presets they access. Using the two-wire, topology-free LinkConnect network, up to 16 button stations can be employed in a system. SmartLink stations are available in neutral colors to complement all interiors: cream, ivory, black, gray and signal white.

SMARTLINK TIMECLOCK

www.etcconnect.com/timeclock

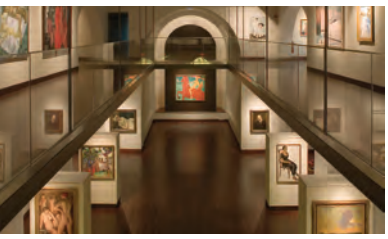
The SmartLink TimeClock brings low-cost, easy-to-use time-of-day control to ETC Unison, Sensor®, and SmartPack dimming, as well as to SmartSwitch relay systems.

When energy consumption is a concern, SmartLink TimeClock is a smart choice. Meeting ASHRAE-90.1 and Title 24 standards, TimeClock maximizes the energy efficiency of your lighting system.

Anyone can program the SmartLink TimeClock for set-it-and-forget-it operation. Automatically activate lighting presets and sequences using event-recurrence modes like 'everyday,' 'weekday,' 'weekend,' and 'daily.' It also offers fully configurable Daylight Saving Time settings.

The SmartLink TimeClock follows the design of other SmartLink stations. The attractive two-gang device has a coordinating overlay and plastic faceplate available in cream, ivory, black, gray and signal white.

source four



Source Four HID™ fixture family

Source Four® lighting power for *anywhere!* If your commercial venue needs the lighting punch and long throws of a theatrical spotlight or the even, clean wash of a PAR-style fixture, the solution is Source Four HID. Call attention to architectural details. Project patterns and logos. Frame signage. Source Four HID's long-life 12,000-hour lamp is available in both 70W and 150W versions. That means low maintenance — perfect for locations that can't be reached often or easily — and low-wattage options, great for working within strict energy-consumption guidelines.

Source Four HID gives you the level of performance of a 2,000-hour incandescent Source Four fixture but with 10,000 additional hours. The metal-halide fixture features the Source Four's famous cool beam, imaging, pattern projection, and bright, even field. Source Four HID uses an electronic ballast with a power factor of greater than 95% compared to some competitors' ballasts at less than 70%. And HID's ballast has an efficiency of greater than 90%. With its low operating current, you can safely place more Source Four HIDs on a standard lighting circuit than you can other manufacturers' units that operate less efficiently. Plus, Source Four HIDs are UL Listed for damp locations.

A Source Four HID for every commercial environment. The standard Source Four HID comes in field angles to suit almost any throw-distance! Use the Source Four HID jr™ when space is tight. The Source Four HID Zoom™ allows you to alter field angles for multipurpose venues or make last-minute on-site changes. The Source Four HID PAR™ gives you brilliant wash lighting, and the Source Four HID PARNel® gives you multiple effects—dramatic pools of light or room-filling washes. The Source Four HID PAR and HID PARNel offer four field spreads and a 25°-45° zoom range. Source Four HIDs are non-dimmable fixtures.

SOURCE FOUR HID

www.etcconnect.com/s4HID

- 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70°, and 90° field angles
- 15°-30° and 25°-50° Zooms
- 70W and 150W versions
- Yoke-mounted 120V or 277V electronic-ballast options
- Ships with 70W or 150W ceramic metal-halide lamp
- 12,000-hour lamp life with 3000°K color temperature
- Optional 4200°K 12,000-hour lamp available
- Barrel rotates ± 25°
- Black, white, and silver standard; custom colors available
- EDLT (Enhanced Definition Lens Tube) option available

SOURCE FOUR HID JR

www.etcconnect.com/s4HIDjr

- 26°, 36°, and 50° fixed-field angles
- 25°-50° Zoom
- Available in 70W and 150W versions
- Yoke-mounted 120V or 277V electronic-ballast options
- Ships with 70W or 150W ceramic metal-halide lamp
- 12,000-hour lamp life with 3000°K color temperature
- Optional 4200°K 12,000-hour lamp available

SOURCE FOUR HID PAR & PARNEL

www.etcconnect.com/s4HIDpar

- 70W and 150W versions
- Yoke-mounted 120V or 277V electronic-ballast options
- Ships with 70W or 150W ceramic metal-halide lamp
- 12,000-hour lamp life with 3000°K color temperature
- Optional 4200°K 12,000-hour lamp available
- PAR features interchangeable lens set (VNSP, NSP, MFL, WFL — standard; XWFL — optional)
- PARNel features 25°-45° zoom

Source Four XT®

Great spotlighting for the great outdoors. Responding to popular demand, ETC created a Source Four® for *exterior* use: the Source Four XT HID Zoom™. The fixture offers the acclaimed operational benefits of Source Fours — optical acuity, brilliant light output and energy efficiencies, in a waterproof, dust-tight housing for all-weather use. The XT's durable industrial design coupled with a 12,000-hour, 150W high-intensity-discharge source make it ideal for long-term use anywhere.

Unlike interior-rated spotlights modified with add-on housings to work outdoors, this is a sleek, fully sealed and self-contained fixture. XT is also aesthetically neutral so that it blends into any location — from outdoor architectural installations to entertainment venues to themed environments and more.

Engineered for a variety of long-throw situations, the XT uses the same 15° to 30° or 25° to 50° optical system as the Source Four Zoom™. And, like other Source Fours, the XT employs Source Four B patterns and dichroic color. With its built-in shutters, the XT is ideal for highlighting architectural detail, as well as for framing building features and signage. XT's mounting options allow you to light from wherever you need to: Place the fixture on the ground, hang it by yoke, attach it to poles, walls, or other structures.

Designed for the long haul, the Source Four XT requires minimal maintenance. Technicians can re-lamp the fixture without breaking focus or accessing the optical chamber. Also, the fixture's ballast is mechanically separate for cooler operation, and fully pre-wired for fewer installation hassles.

SOURCE FOUR XT

www.etcconnect.com/s4xt

- Low-copper die-cast and extruded-aluminum construction
- Stainless-steel, metric hexagonal hardware
- 150W ceramic metal-halide lamp (not dimmable), 12,000-hour life
- Integral 120V or 277V electronic ballast, with greater than 90% efficiency
- IP66 rated — watertight structure seals optical chamber
- UL and cUL Listed for wet locations
- Removable barrel for easy focus
- Barrel hangs on yoke for hands-free operation
- Tilt-down ballast housing for lamp change, without disturbing focus
- 15° to 30° or 25° to 50° zoom range with high efficiency optics
- Dual internal pattern holders suitable for "B"-size metal or glass patterns and color
- Two-plane stainless-steel shutter assembly with shutter rotation
- Bronze, black, and white standard; custom colors available

ACCESSORIES

- Variety of mounting options (yokes, pole-top adapters, wall mount, etc.)
- Pattern Holder (B-size) for steel patterns
- Pattern Holder (B-Size) for glass patterns and color
- Grid Louver and Half Shield options for glare control
- External media holder, holder for glass or gel color for external mounting on fixture housing

ETC Rigging™

The old way: Dangerous manual-rigging practices. *The new way:* The safety of ETC Prodigy® automated rigging.

Prodigy scales the heights, doing the heavy lifting and climbing for you. Whether for a performance or maintenance use, Prodigy rigging raises and lowers your stage lights, scenery, and curtains smoothly, precisely and safely — at the touch of a button.

Prodigy's smarter hoist technology allows you to mount rigging anywhere: front-of-house positions, low spaces, or areas with restricted ceilings. Prodigy's revolutionary Cable Management saves precious ceiling space by allowing systems to retract to just 30 inches while neatly storing up to 48 circuits.

And Prodigy hoists, with ETC's Compression Tube technology, impose no lateral forces on structures — going where automated and conventional rigging could never go before — into schools, gyms, churches, historic buildings, lobbies, atriums, museums, restaurants, and beyond.

Every hoist is tested under full load before leaving the factory. All electrical and electronic connections, lift-line integrity and terminations, limit switch functions, operation switches, and other components are tested by ETC factory technicians. Each hoist receives final inspection by quality managers before the equipment is packaged and shipped.

More peace of mind: Prodigy Fixed and Variable-Speed hoists, Cable Management systems, QuickTouch®, QuickTouch+®, and Foundation™ controllers, and circuit-distribution systems have been tested and authorized by Underwriters Laboratory to bear the UL listing.

Prodigy Hoists

Fixed-Speed Hoists

Variable-Speed General Purpose Hoists

Stage Electrics

Houselight Hoists

EXO Fixed- and Variable-speed General Purpose Hoists

ETC Rigging Control

QuickTouch

QuickTouch+

Foundation

Latino Cultural Center

Dallas, Texas

Smarter, safer, and more affordable rigging. Hosting hundreds of performances, visual art, and educational events a year, the Latino Cultural Center in Dallas (LCC) needed an efficient and versatile rigging system. The Center's 300-seat theater employs 20 ETC Prodigy hoists for raising and lowering both stage lighting and scenery battens — all operated by an ETC QuickTouch 24 control system.

PRODIGY HOISTS WITH COMPRESSION TUBE

Available with Working Load Limits of 650, 800, 1000, 1300, 1500, or 1900 pound capacities

Adds no lateral loads to the building

Loft blocks can be located anywhere along Compression Tube without regard to location of structural members

Built-in load profiling and slack-line detection in every hoist

Dual brakes for ultimate safety

208V or 480V motors available

UL Listed

PRODIGY FIXED-SPEED HOISTS

Working Load Limits of 650 to 1900 pounds

Speed averages 30 feet per minute

Up to eight lift lines

Anywhere positioning of loft blocks/liftlines without regard to structure

Operated by ETC QuickTouch® and Foundation™ Controllers

208V or 480V motors available

PRODIGY VARIABLE-SPEED GENERAL-PURPOSE HOISTS

Working Load Limit of 1000 pounds

User-adjustable operating speeds 0-180 feet per minute

User-adjustable ramp-up and ramp-down speed control

Dual brakes for ultimate safety

PRODIGY STAGE ELECTRICS

Built-in Prodigy Cable Management System for up to 48 circuits, eight data lines, and multiple grounds

PRODIGY HOUSELIGHT HOISTS

Fixed-speed hoist

Factory-wired fixture-mount and circuit-distribution trough up to 105’-0” long

Built-in pantograph that can be wired with dimmed, switched, and emergency circuits (barriered) in a single trough that supports both canopy and stem-mounted architectural fixtures

PRODIGY EXO FIXED- AND VARIABLE-SPEED GENERAL PURPOSE HOISTS

Motorized rigging that adapts to your space

EXO Powerheads can be installed upright, underhung or vertically

EXO systems use traditional upright or underhung head blocks and loft blocks

Available with motor capacities of 900, 1400, and 2000 pounds in Fixed Speed, along with 1200 pounds in Variable Speed

Prodigy EXO Powerheads weigh from 450 to 660 pounds, depending on model

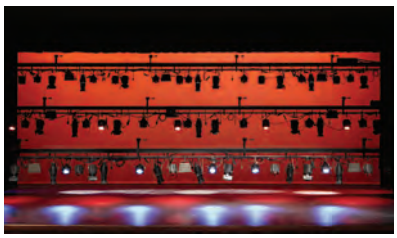
All Powerheads include load profiling and slack-line detection as standard safety features

Small size: Powerheads are only 17 7/8'' to 20 3/4'' high, 48 3/8” to 56 3/8” long and 16'' to 18'' wide, depending on model

Unique Prodigy Hybrid Drum: Powerhead manages up to eight liftlines in a machine 1/3 the length of other hoists

Fail-safe motor brake and Prodigy load brake: Two independent braking systems ensure safe overhead lifting

Built to PLASA/ANSI E1.6-1 motorized-hoist standards



ETC Rigging™ control systems

Rigging confidence with the touch of a button. No other rigging control systems at this level offer such extensive operational and safety-feedback features. QuickTouch®, QuickTouch+® and Foundation™ controls are the command centers of ETC Rigging. These systems activate and monitor the lifting functions of Prodigy® fixed- and variable-speed hoists and system safety features. Each controller logs the use of the entire hoisting system and the behaviors of each hoist, while providing diagnostics on itself and the entire hoisting system. If a fault occurs, hoists communicate the type and location of the fault via the controller's LCD screen. As a safety backup, hoist functionality is limited during a fault condition. The controller also tracks the system's annual-inspection schedule, and records the usage of each hoist (moving distance, peak loads, and fault conditions since install and last inspection). QuickTouch, QuickTouch+ and Foundation produce inspection reports that can be transmitted to archives at ETC, ensuring that required inspections occur, while reporting problems or misuse.

OVERALL FEATURES

- Simple and intuitive operation
- Self-test and safety check at each turn-on
- Annual inspection-alert message
- Hoist-usage statistics and log files
- Automatic inspection report generated as pdf
- Hold-to-run controls
- Hard-wired E-stop and dead-man circuits
- Simple wiring topology requires no auxiliary contactor cabinets — one control cable between hoist(s) and control stations
- Completely quiet — no fans, no spinning hard drives
- Optional multiple E-stop locations
- Optional handheld remote control

QUICKTOUCH AND QUICKTOUCH+ CONTROLLERS

www.etcconnect.com/rigging

ETC Rigging's QuickTouch controllers simplify show setup and lamp replacement. With the touch of a button, lighting battens can be moved to lamp-change position and back again to their precise focus position.

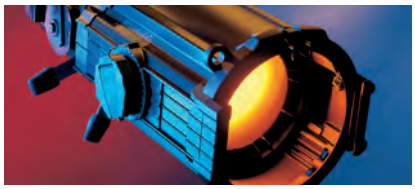
- QuickTouch versions to control 1, 4, 8, 12, or 24 fixed-speed motors
- QuickTouch+ offers added ability to manually control variable-speed motors
- One user trim per motor on QuickTouch
- Five trims available on QuickTouch+
- Graphical LCD display for position, load, and status messages
- Illuminated and dimmable control buttons
- Surface and flush-mount backboxes
- Optional locking door and rack-mount kit

FOUNDATION CONTROLLER

www.etcconnect.com/rigging

Powerful control — to create and run pre-programmed shows at the touch of a button. For multipurpose stages, Foundation's presets can be used to create and restore specific stage configurations for constantly recurring events.

- Controls up to 48 fixed- or variable-speed motors
- Eight user trims and two user limits per motor, plus two system-wide trims
- 15" LCD multi-touch screen
- Four operating modes: Manual, Preset, Cue Stack, Playback
- Manual and target moves
- Joystick for manual operation and speed override
- Up to 999.99 rigging cues
- Time- or speed-based cues with individual wait times and speeds per motor
- Show-file storage on internal drive or external USB stick
- Multilevel password-protected user access
- Automatic backlight adjustment based on ambient light conditions
- Optional handheld remote Enable/Go button



ETC Headquarters
3031 Pleasant View Rd
PO Box 620979
Middleton WI 53562-0979

Toll Free: 1.800.688.4116
Tel: 1.608.831.4116
Fax: 1.608.836.1736
Automated voicemail system:
608.831.4041

ETC Northeast
The Film Center Building
630 9th Ave Suite 1001
New York, NY 10036

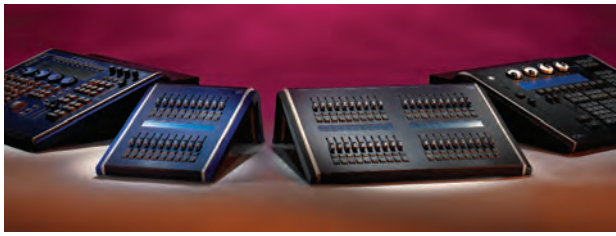
Tel: 1.212.397.8080
Fax: 1.212.397.4340

ETC Southeast
4201 Vineland, Suite I-1
Orlando, FL 32811

Tel: 1.407.843.7770
Fax: 1.407.843.0337

ETC West
6640 Sunset Blvd.
Hollywood, CA 90028

Tel: 1.323.461.0216
Fax: 1.323.461.7830



Electronic Theatre Controls Ltd
26-28, Victoria Industrial Estate
Victoria Road, London W3 6UU

Tel: +44 (0)20 8896 1000
Fax: +44 (0)20 8896 2000

Electronic Theatre Controls GmbH
Ohmstrasse 3
83607 Holzkirchen
Deutschland

Tel: +49 80 24 / 47 00-0
Fax: +49 80 24 / 47 00-3 00

ETC srl
Via Pieve Torina, 48
00156 Roma
Italy

Tel: +39 063 211 1683
Fax: +44 (0)20 87528486

Electronic Theatre Controls Asia, Ltd
Room 1801, 18/F, Tower I,
Phase 1 Enterprise Square
9 Sheung Yuet Road
Kowloon Bay, Kowloon,
Hong Kong

Tel: +852 2799 1220
Fax: +852 2799 9325

Corporate Headquarters ▪ 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA ▪ Tel +1 608 831 4116
London, UK ▪ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ▪ Tel +44 (0) 20 8896 1000
Rome, IT ▪ Via Pieve Torina, 48, 00156 Rome, Italy ▪ Tel +39 (06) 32 111 683
Holzkirchen, DE ▪ Ohmstrasse 3, 83607 Holzkirchen, Germany ▪ Tel +49 (80 24) 47 00-0
Hong Kong ▪ Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ▪ Tel +852 2799 1220
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